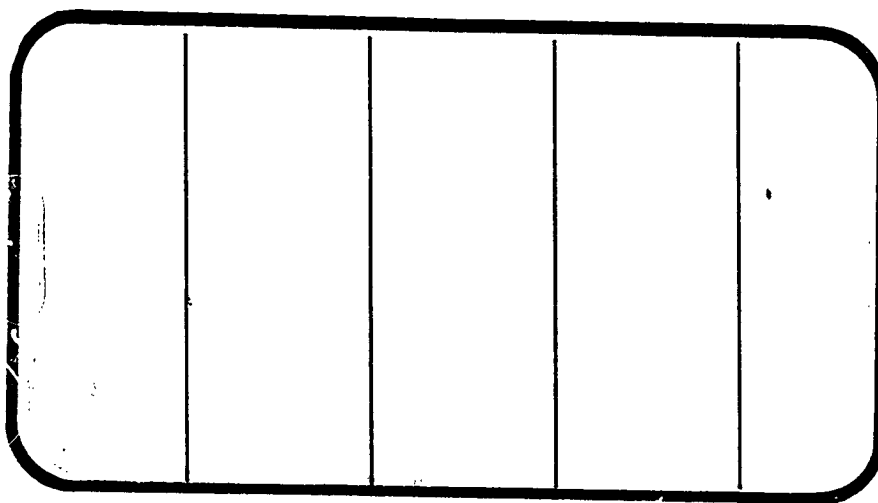




## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-147603) TERMINAL AREA ENERGY  
MANAGEMENT REGIME INVESTIGATIONS UTILIZING  
AN 0.030-SCALE MODEL (47-0) OF THE SPACE  
SHUTTLE VEHICLE ORBITER CONFIGURATION  
140A/B/C/R IN THE AMES RESEARCH CENTER 11 X G3/18

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Unclass  
49195

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER  
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VOLUME 13 OF 13

TERMINAL AREA ENERGY MANAGEMENT  
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE  
MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE  
ORBITER CONFIGURATION 140A/B/C/R IN THE  
AMES RESEARCH CENTER 11 X 11 FOOT  
TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne  
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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New Orleans, La. 70189

for

Engineering Analysis Division  
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National Aeronautics and Space Administration  
Houston, Texas



WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 11-073  
NASA Series Number: OA148  
Model Number: 47-0  
Test Dates: May 5 through May 17, 1975  
Occupancy Hours: 220

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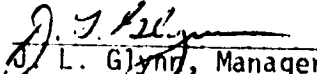
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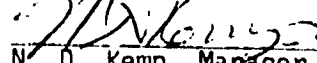
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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

TERMINAL AREA ENERGY MANAGEMENT  
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE  
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ABSTRACT

This report documents data obtained in wind tunnel test 0A148.

The objectives of the test series were to:

- 1) obtain pressure distributions, forces and moments over the vehicle  
5 Orbiter in the terminal area energy management (TAEM) and approach phases  
of flight.
- 2) obtain elevon and rudder hinge moments in the TAEM and approach  
phases of flight.
- 3) obtain body flap and elevon loads for verification of loads  
balancing with integrated pressure distributions.
- 4) obtain pressure distributions near the short OMS pods in the high  
subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with  
Reynolds number variations from  $4.57 \times 10^6$  to  $2.74 \times 10^6$  per foot. Model  
angle-of-attack was varied from -4 to 16 degrees and angles of side slip  
ranged from -3 to 8 degrees.

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7	ORBITER FUSELAGE BODY FLAP DEFLECTION 0 DEGREES	ALPHA, MACH PHI, BETA	D	763-864
8	ORBITER FUSELAGE BODY FLAP DEFLECTION 16.3 DEGREES	ALPHA, MACH PHI, BETA	D	865-966
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# INDEX OF DATA FIGURES (Concluded)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
14	VERTICAL TAIL SPEEDBRAKE DEFLECTION 35 DEGREES	ALPHA, MACH Z/BV, BETA	F	1375-1442

## PLOTTED COEFFICIENTS SCHEDULE:

- A) CY, CYN and CBL versus BETA
- B) CH, CA and CLM versus ALPHA
- C) CHEO, CHEI, CHETOT and CHBF versus ALPHA
- D) CP versus X/LB
- E) CP versus X/CW
- F) CP versus X/CV

# NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$A_b$	AB	total Orbiter base area, $ft^2$
$A_i$	Ai	area over which $P_i$ acts, $ft^2$
$A_{sb}$	ASB	speed brake base area, $ft^2$
$b$	BREF, BW	Orbiter wing span, in
$b_v$	BV	vertical tail reference span, in
$C_{A_u}$	CAU	Orbiter uncorrected axial force coefficient
$C_A$	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
$C_{Af}$	CAF	Orbiter forebody axial force coefficient.
$C_{Asc}$	CASC	Orbiter sting cavity axial force coefficient.
$C_{Du}$	CDU	Orbiter uncorrected drag coefficient
$C_{h_{bf}}$	CHBF	body flap hinge moment coefficient, about hinge line $X_0 = 1532.0$
$C_{h_{ei}}$	CHEI	inner elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
$C_{h_{eo}}$	CHEO	outer elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
$C_{h_{eTOT}}$	CHETOT	total right elevon hinge moment coefficient
$C_{LU}$	CLU	Orbiter uncorrected lift coefficient
$C_\ell$	CBL	Orbiter rolling moment coefficient, body axis system

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_m$	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
$C_{m_u}$	CLMU	Orbiter uncorrected pitching moment coefficient
$C_{m_F}$	CLMF	Orbiter forebody pitching moment coefficient referenced to orbiter MRC.
$C_{m_{sc}}$	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
$C_{N_u}$	CNU	Orbiter uncorrected normal force coefficient
$C_N$	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
$C_{N_F}$	CNF	Orbiter forebody normal force coefficient
$C_{N_{sc}}$	CNSC	Orbiter sting cavity normal force coefficient
$C_n$	CYN	Orbiter yawing moment coefficient, body axis system
$C_{p_i}$	CPi	surface tap pressure coefficient, port i, $(P_i - P_\infty)/q$
$C_y$	CY	Orbiter side force coefficient
$C_{[X][Y]}$	$C[X][Y]$	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic vectors [X] and [Y] are defined below.
<u>[X]=</u>		
A	A	axial force
N	N	normal force
Y	Y	side force
m	LM	pitching moment
n	YN	yawing moment
ℓ	BL	rolling moment



# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
<u>[Y]=</u>		
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps 1 through 6 see figure 2b sting cavity area upper body flap area
$l_b$	LB	Orbiter reference body length, IML nose to $X_0 = 1528.3$ , in.
$l_{REF}$	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
M	MACH	freestream Mach number
$\phi$	PHI	angular cylindrical coordinate position around Orbiter body - deg.
$P_i$	Pi	pressure at surface tap i, PSF
$P_\infty$	P	freestream static pressure, PSF
$P_t$	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, $ft^2$
$T_t$	TTR	freestream total temperature, $^{\circ}R$
$X_{cp}$	XCP/L	center of pressure location referred to $l_b$
$X_0/L_0$	X/LB	longitudinal location of body surface, fraction of body length

# NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
X/C	X/CW	chordwise location on wing surface, fraction of local chord
X/C <sub>v</sub>	X/CV	chordwise location on vertical tail, fraction of local chord
n <sub>v</sub>	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
n	2Y/BW	spanwise location on wing, fraction of semi span
X <sub>mrp</sub>	XMRP	longitudinal location of moment reference point
XT	XT	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
Y <sub>mrp</sub>	YMRP	lateral location of moment reference point
Z <sub>T</sub>	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
δ <sub>bf</sub>	BDFLAP	body flap deflection, degrees
δ <sub>eL</sub>	ELVN-L, L-ELVN	left elevon deflection, degrees
δ <sub>eR</sub>	ELVN-R, R-ELVN	right elevon deflection, degrees
δ <sub>r</sub>	RUDDER	rudder deflection, degrees
δ <sub>sb</sub>	SPDBRK	speed brake deflection, degrees
Z <sub>mrp</sub>	ZMRP	vertical location of moment reference point
	\$\$	mask character used to indicate all possible values for this test 01 through 85

## REMARKS

During the course of the test it was necessary to replumb the scani-valves. The resultant time loss necessitated deleting the priority 4 runs which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due to slow leaks noticed while leak checking individual model pressure taps.

Body flap hinge moment data for datasets RE8001 through RE8005 have a -15% drift while datasets RE8006 and RE8007 have a +10% drift due to data recording system errors. System checks during the remainder of the test indicate a system error of less than 4% for body flap hinge moment data

Rolling moment data has an approximate -.003 bias in the coefficient. The reason for this was not determined, but possible sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

Distortion of the instrumented elevon shaft appears to have occurred around run 310 due to model assembly difficulties and the maximum loads encountered at these test conditions. A comparison of measured elevon deflection before and after the test with the nominal setting is presented below:

<u>Elevon Panel</u>	<u>Nominal</u>	<u>Pre-Test</u>	<u>Post-Test</u>
Inboard right	-10	-9° 36'	-8° 55'
	-4	-3° 34'	-2° 55'
	0	+0° 10'	+1° 02'
	4	+4° 26'	+4° 28'
	10	+10° 32'	+10° 39'
Outboard right	-10	-9° 36'	-8° 15'
	-4	-3° 34'	-2° 20'
	0	+0° 10'	+1° 05'
	4	+4° 26'	+3° 59'
	10	+10° 32'	+10° 18'

\* Inboard only was measured but was the same as outboard panel (see Ref 2)

## CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originally constructed to -140A/B lines, but was modified prior to this test with the addition of the -140C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thruster parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrusters) were added, and the slashes deleted for convenience on Table II (designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thruster ports in the nose were filled reverting the configuration to -140A/B/C modified with body B<sub>26</sub>.

The following nomenclature denotes the model components:

<u>Component</u>	<u>Description</u>
B <sub>26</sub>	140A/B fuselage (VL70-000140A, VL70000140B)
B <sub>70</sub>	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thruster parts (VL70-08501, VL70-08502, VL70-08296)
C <sub>9</sub>	140A/B basic canopy (VL70-000140A, VL70-000143A)
E <sub>44</sub>	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F <sub>9</sub>	140A/B body flap (VL70-000140B, VL70-000200)
M <sub>16</sub>	OMS-RCS pods for 140C Orbiter
N <sub>28</sub>	OMS basic nozzles
R <sub>5</sub>	basic Orbiter rudder (VL70-000146A, VL70-000095)
V <sub>8</sub>	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W <sub>116</sub>	basic 140A/B wing (VL70-000140B, VL70-000200)

# CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR  $\equiv$  B<sub>70</sub> C<sub>9</sub> E<sub>44</sub> F<sub>9</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

-140 ABC  $\equiv$  B<sub>26</sub> C<sub>9</sub> E<sub>44</sub> F<sub>9</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

## TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from  $1.7 \times 10^6/\text{ft}$  to  $9.4 \times 10^6/\text{ft}$ . The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

## DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

<u>Symbol</u>	<u>Orbiter main balance measurement</u>
NF	Normal Force
AF	Axial Force
PM	Pitching Moment
YM	Yawing Moment
SF	Side Force
RM	Rolling Moment

$C_{A_u} = AF / (q S)$	$C_{L_u} = C_{N_u} \cos \alpha - C_{A_u} \sin \alpha$
$C_{N_u} = NF / (q S)$	$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$
$C_Y = SF / (q S)$	

$C_{m_u} = \frac{PM}{q S c} + \frac{C_A \cdot Z_T}{c} - \frac{C_N \cdot X_T}{c}$	
$C_\ell = \frac{RM}{q S b} + \frac{C_Y \cdot Z_T}{b}$	<u>Moment Transfer Distances</u>
$C_n = \frac{YM}{q S b} - \frac{C_Y \cdot X_T}{b}$	$X_T = 0.572 \text{ in.}$
	$Y_T = 0$
	$Z_T = 0.450 \text{ in.}$

The Moment Reference Center about which the data was reduced is located at

	<u>Orbiter (Full Scale)</u>
$X_0$	1076.68
$Y_0$	0
$Z_0$	375.00

Balance coefficients were grouped into datasets RE80\$\$.

## DATA REDUCTION (Continued)

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

$$HM_{eI} = (HM1-HM2) (M1/D1) + HM1$$

$$HM_{eO} = (HM3-HM4) (M3/D3) + HM3$$

where

$HM_i$  = measured moment on strain gage  $i$

$D1$  = distance between gages 1 and 2, .49335 in.

$D3$  = distance between gages 3 and 4, .45800 in.

$M1$  = moment transfer distance for inboard elevon, .93825 in.

$M3$  = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

$$\text{Inboard, } C_{HeI} = HM_{eI} / (q S_e c_e)$$

$$\text{Outboard, } C_{HeO} = HM_{eO} / (q S_e c_e)$$

$$\text{Total, } C_{HeTOT} = C_{HeI} + C_{HeO}$$

$S_e$  = elevon reference area, 0.189 ft.<sup>2</sup>

$c_e$  = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

$$C_{Hbf} = HM_{bf} / (q S_{bf} c_{bf})$$

$HM_{bf}$  = measured body flap hinge moment

$S_{bf}$  = body flap reference area, 0.12834 ft.<sup>2</sup>



### DATA REDUCTION (Continued)

$c_{bf}$  = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X\$\$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{p_i} = (P_i - P_\infty)/q$$

where  $P_i$  = pressure at model orifice  $i$

$P_\infty$  = tunnel static pressure

$q$  = tunnel dynamic pressure

Other data reduction constants include:

$S$  = wing reference area, 2.4210 ft.<sup>2</sup>

$c$  = wing reference chord, 14.2443 in.

$b$  = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES, DMS interpolated it to nominal  $\alpha$ 's and  $\beta$ 's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

U ~ uncorrected coefficients.

~ coefficients with sting cavity pressure corrected to base pressure (without a suffix).

F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

### DATA REDUCTION (Continued)

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$\begin{aligned}C_{A_{sc}} &= \frac{(C_{p2} - C_{p1}) A_1}{S} \\C_{N_{sc}} &= \frac{(C_{p2} - C_{p1}) A_1 \tan 12.55^\circ}{S} \\C_{m_{sc}} &= C_{A_{sc}} \frac{Z_t}{c} - C_{N_{sc}} \frac{x_{sc}}{c}\end{aligned}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$\begin{aligned}C_A &= C_{A_u} - C_{A_{sc}} \\C_N &= C_{N_u} - C_{N_{sc}} \\C_m &= C_{m_u} - C_{m_{sc}}\end{aligned}$$

These orbiter coefficients are part of datasets KE80\$\$.

## DATA REDUCTION (Continued)

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$C_{N2u} = -(C_{p2} A_{2u} \tan 16^\circ)/S$$

$$C_{A2u} = -(C_{p2} A_{2u})/S$$

$$C_{m2u} = \frac{C_{A2u} Z_{2u}}{c} - \frac{C_{N2u} X_{2u}}{c}$$

Lower base area

$$C_{N2l} = -(C_{p2} A_{2l} \tan 10^\circ)/S$$

$$C_{A2l} = -(C_{p2} A_{2l})/S$$

$$C_{m2l} = C_{A2l} \frac{Z_{2l}}{c} - C_{N2l} \frac{X_{2l}}{c}$$

Total base area,  $A_2$

$$C_{N2} = C_{N2u} + C_{N2l}$$

$$C_{A2} = C_{A2u} + C_{A2l}$$

$$C_{m2} = C_{m2u} + C_{m2l}$$

OMS pod base area,  $A_3$

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A3} = -(C_{p3} A_3)/S$$

$$C_{m3} = C_{A3} \frac{Z_3}{c}$$

OMS pod base area,  $A_4$

(This assumes the surface is perpendicular to the orbiter X-axis)

# DATA REDUCTION (Continued)

$$C_{A4} = -(C_{p4} A_4)/S$$

$$C_{m4} = C_{A4} \frac{Z_4}{c}$$

Coefficients for the above areas are grouped into datasets EE8D\$\$.

Upper surface of body flap

$$C_{A_{bf}} = \frac{-C_{p_{bf}} A_{bf}}{S} \sin (\delta_{bf} + 6.88^\circ)$$

$$C_{N_{bf}} = \frac{-C_{p_{bf}} A_{bf}}{S} \cos (\delta_{bf} + 6.88^\circ)$$

$$C_{m_{bf}} = \frac{C_{A_{bf}} Z_{bf}}{c} - \frac{C_{N_{bf}} X_{bf}}{c}$$

where:

$$C_{p_{bf}} = \frac{C_{p200} + C_{p201} + C_{p204} + C_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$C_{A_F} = C_{A_u} - \left( \frac{-C_{p1} A_1}{S} + \sum_{i=2}^4 C_{A_i} + C_{A_{bf}} \right)$$

$$C_{N_F} = C_{N_u} - (C_{N_2} + C_{N_{bf}})$$

$$C_{m_F} = C_{m_u} - \left( \sum_{i=2}^4 C_{m_i} + C_{m_{bf}} \right)$$

These orbiter coefficients are part of datasets KE80\$\$.

Vertical tail "undercarriage" area,  $A_5$

Top Segment:

$$C_{N5t} = (C_{p5} A_{5t} \tan 63.75^\circ)/S$$

# DATA REDUCTION (Continued)

$$C_{A5t} = - (C_{p5} A_{5t})/S$$

$$C_{m5t} = C_{A5t} \frac{Z_{5t}}{c} - C_{N5t} \frac{X_{5t}}{c}$$

Middle Segment:

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426^\circ)/S$$

$$C_{A5m} = - (C_{p5} A_{5m})/S$$

$$C_{m5m} = C_{A5m} \frac{Z_{5m}}{c} - C_{N5m} \frac{X_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} \tan 21.94^\circ)/S$$

$$C_{A5b} = - (C_{p5} A_{5b})/S$$

$$C_{m5b} = C_{A5b} \frac{Z_{5b}}{c} - C_{N5b} \frac{X_{5b}}{c}$$

Total area,  $A_5$ :

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$C_{M5} = C_{m5t} + C_{m5m} + C_{m5b}$$

Vertical Tail base area,  $A_6$ :

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} \tan 63.75^\circ)/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$C_{m6u} = C_{A6u} \frac{Z_{6u}}{c} - C_{N6u} \frac{X_{6u}}{c}$$

# DATA REDUCTION (Continued)

Rudder/Speed brake base:

$$C_{A6\ell} = C_{p6} A_{6\ell} [\sin (\theta - 55.1667^\circ) \cos 55.1667^\circ + \cos (\theta - 55.1667^\circ) \sin 55.1667^\circ \cos (\delta r)]/S$$

$$C_{N6\ell} = C_{p6} A_{6\ell} [\sin (\theta - 55.1667^\circ) \sin 55.1667^\circ - \cos (\theta - 55.1667^\circ) \cos 55.1667^\circ \cos (\delta r)]/S$$

$$C_{Y6\ell} = C_{p6} A_{6\ell} \cos (\theta - 55.1667^\circ) \sin \delta r/S$$

$$C_{m6\ell} = [C_{A6\ell} (Z_{6\ell}) - C_{N6\ell} (X_{6\ell})]/c$$

$$C_{\ell 6\ell} = [C_{Y6\ell} (Z_{6\ell})]/b$$

$$C_{n6\ell} = -[C_{Y6\ell} (X_{6\ell})]/b$$

$$\theta = \tan^{-1} \left[ \frac{5.456791 + .573209 \cos \left( \frac{\delta_{SB}}{2} \right)}{3.797715 - .823715 \cos \left( \frac{\delta_{SB}}{2} \right)} \right]$$

$$A_{6\ell} = A_{6\ell} / \sin \theta$$

Total area,  $A_6$ :

$$C_{A6} = C_{A6u} + C_{A6\ell}$$

$$C_{N6} = C_{N6u} + C_{N6\ell}$$

$$C_{Y6} = C_{Y6\ell}$$

$$C_{m6} = C_{m6u} + C_{m6\ell}$$

$$C_{\ell 6} = C_{\ell 6\ell}$$

$$C_{n6} = C_{n6\ell}$$

Vertical tail area coefficient data are grouped into datasets GE8D\$\$.

DATA REDUCTION (Continued)

BASE GEOMETRIC PROPERTIES MATRIX

Description	Sub-script	Area A ~ ft. <sup>2</sup>	Distance between Centroid and MRC	
			vertical Z ~ in.	longitudinal X ~ in.
Sting cavity	sc	0.076699	0.45	12.199
Body flap upper surface	bf	0.128	- 2.64	13.659
Orbiter balance cavity	1	0.076699	0.45	12.199
Orbiter base orifice 2 lower	2l	0.133889	- 1.32	12.617
Orbiter base orifice 2 upper	2u	0.0818055	2.07	12.384
Lower OMS pod	3	0.030472	2.68	NA
Upper OMS pod	4	0.074166	3.63	NA
Vertical tail "undercarriage" bottom	5b	0.003565	4.612	12.395
Vertical tail "undercarriage" middle	5m	0.002610	5.336	14.079
Vertical tail "undercarriage" top	5t	0.000341	5.97	15.185
Vertical tail above rudder	6u	0.000798	12.656	18.482
Base area of speed brake	6l	Varies with speed brake deflection		

NOTES: Sting cavity and Orbiter balance cavity are synonymous.

NA - not applicable.

# DATA REDUCTION (Continued)

$\delta_{sb}$	$\Delta G_{\ell}$ ft <sup>2</sup>
0	0.0066036
25	0.0456000
35	0.0621000
55	0.0950800
85	0.1551400

$$X_{6\ell} = 15.045 + 1.442277 [1 - \cos (\delta_{sb}/2)]$$

$$Z_{6\ell} = 9.755 + 0.501827 [1 - \cos (\delta_{sb}/2)]$$

Standard DMS loads cycle test procedures were used to process the OA148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:



# DATA REDUCTION (Continued)

## OA148 Bad Pressure Data

<u>Component</u>	<u>Dataset No.</u>	<u>Tap No.</u>	<u>B</u>	<u>a</u>
Fuselage (B)	1	143	4	-4
	1	148	4	-4
	1	150	4	-4
	1	152	4	-4
	1	186	4	-4
	1	187	4	-4
	1	189	4	-4
	1	191	4	-4
	1	193	4	-4
Lower Wing (L)	1 → 7	231	ALL	ALL
	1 → 85	290	ALL	ALL
	1	316	4	-4
	1	317	4	-4
	1	337	4	-4
	1	338	4	-4
	1	358	4	-4
	1	378	4	-4
	1	379	4	-4
	1	399	4	-4
Upper Wing (U)	1 → 7	247	ALL	ALL
	1	357	4	-4
Body Flap (F)	24	205	-4	12
Speed Brake (K)	1 → 85	822	ALL	ALL
Vertical Tail (V)	8	443	ALL	ALL
	ALL	1444	ALL	ALL
	79	1453	-4	-4
	79	1454	-4	-4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

## DATA REDUCTION (Continued)

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

VOLUME NO.	CONTENTS
1	Force data plots showing lateral-directional longitudinal and hinge moment characteristics.
2	Plots illustrating the effect of control surface deflections on fuselage, wing and vertical tail pressure distributions.

# DATA REDUCTION (Concluded)

VOLUME  
NO.

CONTENTS

3

## Tabulated Force Data

<u>Dataset</u>	<u>Data type</u>
RE80\$\$	source balance coefficients
RE8X\$\$	source hinge moment coefficients
RE8Y\$\$	source base pressure coefficients
KE80\$\$	interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
EE8D\$\$ FE8D\$\$	interpolated base and cavity area coefficients
GE8D\$\$	interpolated vertical tail base area coefficients

## Tabulated Pressure Data

	<u>Component</u>	<u>Fourth Character*</u>	<u>Page</u>
4, 5	orbiter fuselage	B	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12	upper body flap	F	5405
12	lower body flap	G	5774
13	speed brake	K	6143
13	vertical tail	V	6547

\* The fourth character in each dataset identifier (i.e., XE8BXX, B for Fuselage) represents the individual component.

## REFERENCES

1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 Pressure Loads Space Shuttle Model in the 11 x 11 Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.
2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-0 (140A/B Configuration)". SAS/WT0/75-283, July 29, 1975.

TABLE I

[illegible]

100-073

TABLE II.

TEST: OA 148		DATA SET RUN NUMBER COLLATION SUMMARY												DATE: 2657 TEST	
DATA SET IDENTIFIER	CONFIGURATION	A	B	C	D	E	F	G	H	I	J	K	L	MACH NUMBERS	
288001-140 A3CR		B	D	0	55	163	0	0	32	38	39	33	34	1.4	1.6
002		A	D						43	48	44	45	46	1.25	1.1
003		A	D						48	53	54	55	56	0.9	0.6
004		A	D												
005		A	C												
006-140 A3CR		A	C	0	55	225	0	0	60	61	62	63	64	0.6	0.9
007		A	D						68	66	67	69	70		
008-140 A3CR		B	D	0	85	225	0	0	71	72	73	74	75	1.4	1.6
009		A	D						77	78	79	80	81	1.25	1.1
010		A	D						82	83	84	85	86	0.9	0.6
011		A	D						87	88	89	90	91		
012		A	C						92	93	94	95	96		

COEFFICIENTS

AX = -4, 0, 4, 8, 12  
 BX = -4, 0, 4, 8, 12, 16  
 CY = -8, -4, 0, 4, 8  
 DZ = -4, 0, 4

NASA-MSC-WAF

TABLE II - Continued.

TEST: OA 148		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: POST TEST	
TEST RUN NUMBER	INFORMATION	$\alpha$										MACH NUMBERS	
		A	B	C	D	E	F	G	H	I	J	K	L
023	-140 ABCR	B	D	0	35	0	0	0	97	98	99	100	101
024		A	D						103	104	105	106	107
025		A	D						108	109	110	111	112
026		A	D						113	114	115	116	117
027		A	C						118	119	120	121	122
028													
029	-140 ABCR	B	D	0	0	-117	0	0	123	124	125	126	127
030		A	D						131	129	130	132	133
031		A	D						134	135	136	137	138
032		A	D						139	140	141	142	143
033		A	C						144	145	146	147	148
034													
035	-140 ABCR	B	D	0	0	0	0	0	149	150	151	152	153
036		A	D						155	156	157	158	159
037		A	D						160	161	162	163	164
038		A	D						165	166	167	168	169
039		A	C						170	171	172	173	174
040													
COEFFICIENTS													
IDVAR (1) IDVAR (2) IDVAR (3)													
NASA-MSC-MAF													

TABLE II. - Continued.

TEST: 0A 148		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: Post Test	
DATA SET IDENTIFIER	CONFIGURATION	TEST RUN NUMBER										MACH NUMBERS	
		$\alpha$	$\beta$	$\gamma$	$\delta$	$\epsilon$	$\zeta$	$\eta$	$\theta$	$\iota$	$\kappa$	$\lambda$	$\mu$
RE8022	140 ABCR	B	D	-W	35	163	10	0	175	176	177	178	179
029		A	D						181	182	183	184	185
030		A	D						186	187	188	189	190
031		A	D						191	192	193	194	195
032		A	C						196	197	198	199	200
033	140 ABCR	B	D	+10	35	163	0	10	201	202	203	204	205
034		A	D						207	208	209	210	211
035		A	D						212	213	214	215	216
036		A	D						217	218	219	220	221
037		A	C						222	223	224	225	226
038	140 ABCR	B	D	+10	85	163	10	10	227	228	229	230	231
039		A	D						233	234	235	236	237
040		A	D						238	239	240	241	242
041		A	D						243	244	245	246	247
042		A	C						248	249	250	251	252
		COEFFICIENTS										IDVAR (1)	IDVAR (2)
SCHEDULES													

NAE-NSFC-MAF



TABLE II. - Continued.

TEST: OA 108		DATA SET RUN NUMBER COLLATION SUMMARY												DATE: Post Test	
DATA SET IDENTIFIER	CONFIGURATION	TEST RUN NUMBERS												MACH NUMBERS	
		01	02	03	04	05	06	07	08	09	10	11	12	13	14
043	140 ABCR	A	D	0	SS	225	10	10	253	254	255	256	257	0.9	
044		A	C						258	259	260	261	262	0.6	
045	140 ABCR	A	D	0	SS	225	4	4	263	264	265	266	267	0.9	
046		A	C						268	269	270	271	272	0.6	
047	140 ABCR	B	D	-10	SS	163	4	4	273	274	275	276	277	1.4	
048		A	D						279	280	281	282	283	1.25	
049		A	D						284	285	286	287	288	1.1	
050		A	D						289	290	291	292	293	0.9	
051		A	D						294	295	296	297	298	0.6	
052	140 ABCR	B	D	-10	SS	163	4	4	299	300	301	302	303	1.4	
053		A	D						305	306	307	308	309	1.25	
054		A	D						310	311	312	313	314	1.1	
055		A	D						315	316	317	318	319	0.9	
056		A	C						320	321	322	323	324	0.6	
		COEFFICIENTS												IDVAR (1)	IDVAR (2)
a = b															
c = d															

NASA-MSEC-MAF

TABLE II. - Continued.

TEST: CA 14-B		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: 2-27-57		TEST	
DATA SET IDENTIFIER	DESCRIPTION	X										MACH NUMBERS		TEST RUN NUMBER	
		A	B	C	D	E	F	G	H	I	J	1	2	3	4
258-001	258-001-R	B	D	10	65	103	4	-4	8-0	8-0	8-0	16	16	16	16
258-002		A	D												
258-003		A	D												
258-004		A	D												
258-005		A	D												
258-006		A	D												
258-007		A	D												
258-008		A	D												
258-009		A	D												
258-010		A	D												
258-011		A	D												
258-012		A	D												
258-013		A	D												
258-014		A	D												
258-015		A	D												
258-016		A	D												
258-017		A	D												
258-018		A	D												
258-019		A	D												
258-020		A	D												
258-021		A	D												
258-022		A	D												
258-023		A	D												
258-024		A	D												
258-025		A	D												
258-026		A	D												
258-027		A	D												
258-028		A	D												
258-029		A	D												
258-030		A	D												
258-031		A	D												
258-032		A	D												
258-033		A	D												
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258-035		A	D												
258-036		A	D												
258-037		A	D												
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258-041		A	D												
258-042		A	D												
258-043		A	D												
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258-124		A	D												
258-125		A	D												
258-126		A	D												
258-127		A	D												
258-128		A	D												
258-129		A	D												

TABLE II. - Concluded.

TEST: ON 43		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: POST TEST			
DATA SET IDENTIFIER	CONFIGURATION	X										MACH NUMBERS			
		3	8	5	5	6	6	8	10	10	10				
20507	40 ABC	B	D	-5	55	16	3	-10	397	398	399	400	401	402	1.4
212		A	D						403	404	405	406	407		1.25
213		A	D						408	409	410	411	412		1.1
214		A	D						413	414	415	416	417		0.9
215		A	C						418	419	420	421	422		0.6
216	40 ABC	B	D	10	0	-11.7	10	-10	423	424	425	426	427	428	1.4
217		A	D						429	430	431	432	433		1.25
218		A	D						434	435	436	437	438		1.1
219		A	D						439	440	441	442	443		0.9
220		A	C						444	445	446	447	448		0.6
221	10 ABC	B	E	10	0	-11.7	-10	10	449	450	451	452	453	454	1.4
222		A	E						455	456	457	458	459		1.25
223		A	E						460	461	462	463	464		1.1
224		A	F						465	466	467	468	469		0.9
225		A	O						470	471	472	473	474		0.6
		13	19	25	31	37	43	49	55	61	67	73	79	85	91
		COEFFICIENTS													
		SCHEDULES													
		$F_A = 0.0 \quad X = -4.0 \quad 8.16$ $-4.0 \quad 4.0 \quad X = 4.12$													
		$F_B = 0.0 \quad X = -4.0 \quad 8.12$ $-4.0 \quad 4.0 \quad X = 4$													
		$F_C = 0.0 \quad X = -4.0 \quad 8.12$ $-4.0 \quad 4.0 \quad X = 4$													

TABLE III  
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B<sub>26</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B<sub>26</sub> is identical to B<sub>21</sub>, except underside of fuselage has been  
refaired to accept W<sub>116</sub>.

MODEL SCALE: 0.030 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER : VL70-000143B, -000200, -000205, -006089, -000145,  
VL70-000140A, -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMI: Fwd Sta. X <sub>0</sub> =235), In.	1293.3	38.799
Length (IML: Fwd Sta X =238), In.	1290.3	38.709
Max Width (@ X <sub>0</sub> = 1528.3), In.	264.0	7.920
Max Depth (@ X <sub>0</sub> = 1464), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Continued)

MODEL COMPONENT : BODY - B<sub>70</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage with forward fuselage RCS thruster ports, otherwise B<sub>70</sub> is identical to B<sub>26</sub>.

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140A, -000140B, -000143B, -000145, -000200, VL70-000205, -006089, -008501, -008502, -008296

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta $X_0=235$ ), In.	1293.3	38.799
Length (IML: Fwd Sta $X_0=238$ ), In.	1290.3	38.709
Max Width (@ $X_0 = 1528.3$ ), In.	264.0	7.920
Max Depth (@ $X_0 = 1464$ ), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Cont'd)

MODEL COMPONENT : CANOPY - C<sub>9</sub>

GENERAL DESCRIPTION : Configuration 3A, Canopy used with fuselage  
B<sub>26</sub>.

MODEL SCALE: 0.030 MODEL DWG: BS-A00147, Release 12

DRAWING NUMBER : VI.70-000143A

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length ( $X_0=434.643$ to $578$ ), In.	<u>143.357</u>	<u>4.301</u>
Max Width (@ $X_0 = 513.127$ ), In.	<u>152.412</u>	<u>4.572</u>
Max Depth (@ $X_0 = 485.0$ ), In.	<u>25.00</u>	<u>0.750</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

REF ID: A600147  
ORIGINAL PAGE OF 10

TABLE III (Cont'd)

MODEL COMPONENT	<u>ELEVON - E<sub>11</sub></u>
GENERAL DESCRIPTION	<u>6.0 In. F.S. gaps machined into E<sub>25</sub> elevon.</u> <u>Flipper doors centerbody pieces, and tipseals are not simulated.</u> <u>(Data are for one of two sides.)</u>
MODEL SCALE:	<u>0.030</u>
DRAWING NUMBER	<u>                    </u>

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.189</u>
Span (equivalent) , In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>3.54</u>
Outb'd equivalent chord , In.	<u>55.19</u>	<u>1.656</u>
Ratio movable surface chord: total surface chord	<u>                    </u>	<u>                    </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u>                    </u>	<u>                    </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of Area & c)	<u>                    </u>	<u>                    </u>
Area Moment (Nose to hinge line) , Ft <sup>3</sup>	<u>1587.25</u>	<u>0.0429</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>2.721</u>

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - F<sub>9</sub>GENERAL DESCRIPTION : Configuration 140A/BMODEL SCALE: 0.030DRAWING NUMBER : VL70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	<u>84.7</u>	<u>2.541</u>
Max Width , In.	<u>262.308</u>	<u>7.869</u>
Max Depth , In.	<u>23.00</u>	<u>0.690</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>142.60</u>	<u>0.128</u>
Wetted	<u></u>	<u></u>
Base	<u>+1.90</u>	<u>0.0377</u>



TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M<sub>14</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter OMS pod - short pod.  
External contour is to referenced drawings with 1/2" added to simulate  
TPS.

MODEL SCALE: 0.015

DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1310.5$ ), In.	<u>258.50</u>	<u>7.755</u>
Max Width (@ $X_0 = 1511$ ), In.	<u>136.8</u>	<u>4.104</u>
Max Depth (@ $X_0 = 1511$ ), In.	<u>74.70</u>	<u>2.241</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>58.865</u>	<u>0.053</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

TABLE III (Cont'd)

MODEL COMPONENT: ~~OMS~~ <sup>OMS</sup> NOZZLES - N<sub>28</sub>

GENERAL DESCRIPTION: Configuration 140A/B orbiter OMS nozzles.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Release 9 (Contour)

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.			
Length - In.			
Gimbal Point to Exit Plane			
Throat to Exit Plane			
Diameter - In.			
Exit			
Throat			
Inlet			
Area - ft <sup>2</sup>			
Exit			
Throat			
Gimbal Point (Station) - In.			
Left Nozzle			
X <sub>0</sub>		<u>1518.0</u>	<u>45.54</u>
Y <sub>0</sub>		<u>- 88.0</u>	<u>- 2.64</u>
Z <sub>0</sub>		<u>492.</u>	<u>14.76</u>
Right Nozzles			
X <sub>0</sub>		<u>1518.0</u>	<u>45.54</u>
Y <sub>0</sub>		<u>88.0</u>	<u>2.64</u>
Z <sub>0</sub>		<u>492.0</u>	<u>14.76</u>
Null Position - Deg.			
Left Nozzle			
Pitch		<u>15°49'</u>	<u>15°49'</u>
Yaw		<u>12°17'</u>	<u>12°17'</u>
Right Nozzle			
Pitch		<u>15°49'</u>	<u>15°49'</u>
Yaw		<u>12°17'</u>	<u>12°17'</u>

TABLE III (Cont'd)

MODEL COMPONENT RUDDER - R<sub>5</sub>

GENERAL DESCRIPTION Configuration 140C orbiter rudder (identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000146B, -000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft <sup>2</sup>	<u>100.15</u>	<u>0.090</u>
Span (equivalent), In.	<u>201.00</u>	<u>6.030</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>2.748</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>1.525</u>
Ratio movable surface chord/ total surface chord	<u>          </u>	<u>          </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u>          </u>	<u>          </u>
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of area & $\bar{c}$ )	<u>          </u>	<u>          </u>
Area Moment (Product of area & $\bar{c}$ ), Ft <sup>3</sup>	<u>610.92</u>	<u>0.0165</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.196</u>

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V<sub>3</sub>GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail.(Identical to configuration 140A/B vertical tail.)MODEL SCALE: 0.030DRAWING NUMBER: VL70-000140C, -000146B

## DIMENSIONS:

FULL SCALEMODEL SCALE

## TOTAL DATA

Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.372</u>
Span (Theo) - In.	<u>315.72</u>	<u>9.472</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.055</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.254</u>
MAC	<u>199.81</u>	<u>5.994</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>43.901</u>
W.P. of .25 MAC	<u>635.52</u>	<u>19.066</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.0</u>	<u>10.0</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.0</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.0019</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III (Concl'd)

MODEL COMPONENT: WING-W<sub>16</sub>GENERAL DESCRIPTION: Configuration 4NOTE: Identical to W<sub>11</sub>, except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.030

TEST NO.

DWG. NO. VL70-000140A, -000200DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft<sup>2</sup>

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

## Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft<sup>2</sup>

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

## Chords

Root BP108

Tip 1.00  $\frac{b}{2}$ 

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)  
XXXX-64Root  $\frac{b}{2}$  =Tip  $\frac{b}{2}$  =

Data for (1) of (2) Sides

Leading Edge Cuff 2

Planform Area Ft<sup>2</sup>

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

2690.00	2.421
936.68	28.10
2.265	2.265
1.177	1.177
0.200	0.200
3.500	3.500
0.500	0.500
45.000	45.000
- 10.056	- 10.056
35.209	35.209
689.24	20.677
137.85	4.136
474.81	14.244
1136.83	34.105
290.58	8.717
182.13	5.464
1751.50	1.576
720.68	21.620
2.059	2.059
0.245	0.245
562.09	16.863
137.85	4.136
392.83	11.785
1185.98	35.579
295.30	8.829
251.77	7.555
0.113	0.113
0.120	0.120
113.18	0.102
300.0	15.0
1024.0	30.720

TABLE IV.

## FUSELAGE PRESSURE TAP LOCATIONS -

Orbiter - IN.		$\Phi$ RADIAL LOCATION ~ DEGREES																					
Full Model	$X_c/L_c$	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	40 175 785		
235	7.05	0	7																10	3	4	1	
245	7.35	008	8				9												19	9	15	1	
265	7.95	.023	11	12	13	14	15	16		17			18						31	8	21		
295	8.85	.046		24	25	26	27	28		29			30							43	8	29	
325	9.75	.070		36	37	38	39	40		41			42							55	9	38	
330	1.40	.112	47	48	49	50	51	52		53			54						59		1	39	
440	13.20	.158																					
450	13.50	.166	60	61	62	63	64	65		66			67					68		69	10	49	
465	13.95	.177												73	74						2	51	
500	15.00	.204	75	76	77	78	79	80		81		82	83					84		85	11	62	
560	16.80	.251	89		90		91	92		93			94					95		96	8	70	
625	18.75	.301	98		99		100	101		102			103					104		105	8	73	
725	21.75	.378	107		108		109	110		111			112					113		114	8	86	
880	26.40	.497	116		117		118	119		120			121					122		123	8	94	
980	29.40	.574	125		126																2	96	
1080	32.40	.652	128		129		130	131		132			133					134		135	8	109	
1180	35.40	.729	137		138		139	140		141			142							143	7	111	

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

ORBITER-IN.		$\Phi$ RADIAL LOCATION ~ DEGREES																								NO TAPS	$\Sigma$ NO TAPS
Full	Max 1/2	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	300	320	340	140	170	10	
1245	37.35	779	145	146		147	148	149		150	151		152			153			154						10	10	
1300	39.0	821	152	157		158	159	160		161	162		163						164						9	19	
1375	41.25	879	166	167		168	169	170		171	172		173			174									9	28	
1430	42.9	921	176	177		178	179	180		181	182		183			184									9	37	
1480	44.4	960	186	187		188	189	190		191	192		193			194									9	46	
1530	45.9	999							196	197															4	50	
									198	199																	





TABLE V. - Concluded.

$\eta$	$Y_0$	LEFT WING PRESSURE TAP LOCATIONS												No TAPS	$\Sigma$ No TAPS
		$1/2$	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00
.641	300 TOP											333	334	335	
	BOT											341	345	346	347
.673	315	$1/2$	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00
	TOP														
	BOT														
.780	365	$1/2$	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00
	TOP														
	BOT														
.887	415	$1/2$	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.00
	TOP														
	BOT														
.972	455	$1/2$	0	.020	.069	.157	.305	.503	.670	.862					
	TOP														
	BOT														
1.0	483 TOP	$1/2$	.418	.713											
	TOP														
	BOT														

TABLE VI.

ORBITER VERTICAL TAIL & SPEED BRAKE  
PRESSURE TAP LOCATIONS

VERTICAL (LH ONLY)		X/C <sub>v</sub>													
Z <sub>0</sub> FULL SCALE	Z <sub>0</sub> MODEL SCALE	71.1	0	.025	.05	.15	.30	.52	.685	.775	.90	NO TAPS	Σ NO TAPS		
550	16.5	.153	.430	.431	.432	.433	.434	.435	.436	.437		8	8		
600	18.0	.16	.435	.439	.440	.441	.442	.443	.444	.445	.446	9	17		
645	19.35	.459							.444	.445	.446	3	20		
690	20.70	.525	.448	.449	.450	.451	.452	.453	.454	.455	.456	9	29		
720	21.6	.720							.453	.454	.455	3	32		
765	22.95	.840	.456	.457	.458	.459	.460	.461	.462	.463	.464	9	41		
792	23.76	.825	.465	.466	.467	.468	.469	.470	.471	.472	.473	9	50		

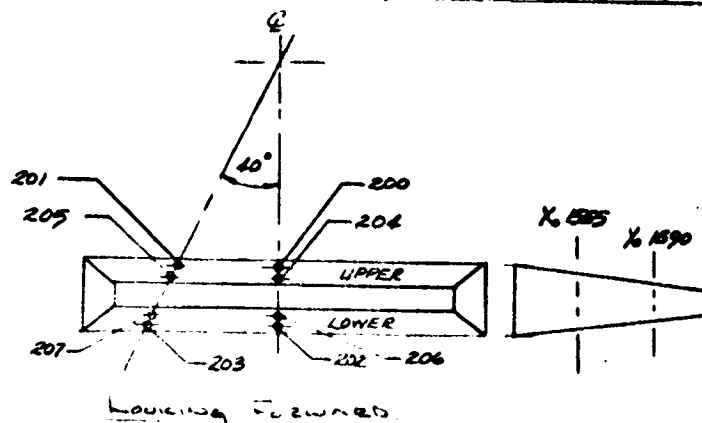
SPEED BRAKE (R.H.)		X/58V									
Z <sub>0</sub> FULL SCALE	Z <sub>0</sub> MODEL SCALE	71/58	.10	.25	.40	.65	.90	NO TAPS	Σ NO TAPS		
600	18.0	.110	.801	.802	.803	.804	.805	5	5		
630	18.9	.254	.806	.807	.808	.809	.810	5	10		
666	19.8	.407	.811	.812	.813	.814	.815	5	15		
690	20.7	.567	.816	.817	.818	.819	.820	5	20		
720	21.6	.706	.821	.822	.823	.824	.825	5	25		
750	22.5	.856	.826	.827	.828	.829	.830	5	30		

REPRODUCED FROM  
NASA TECHNICAL REPORT

TABLE VII.

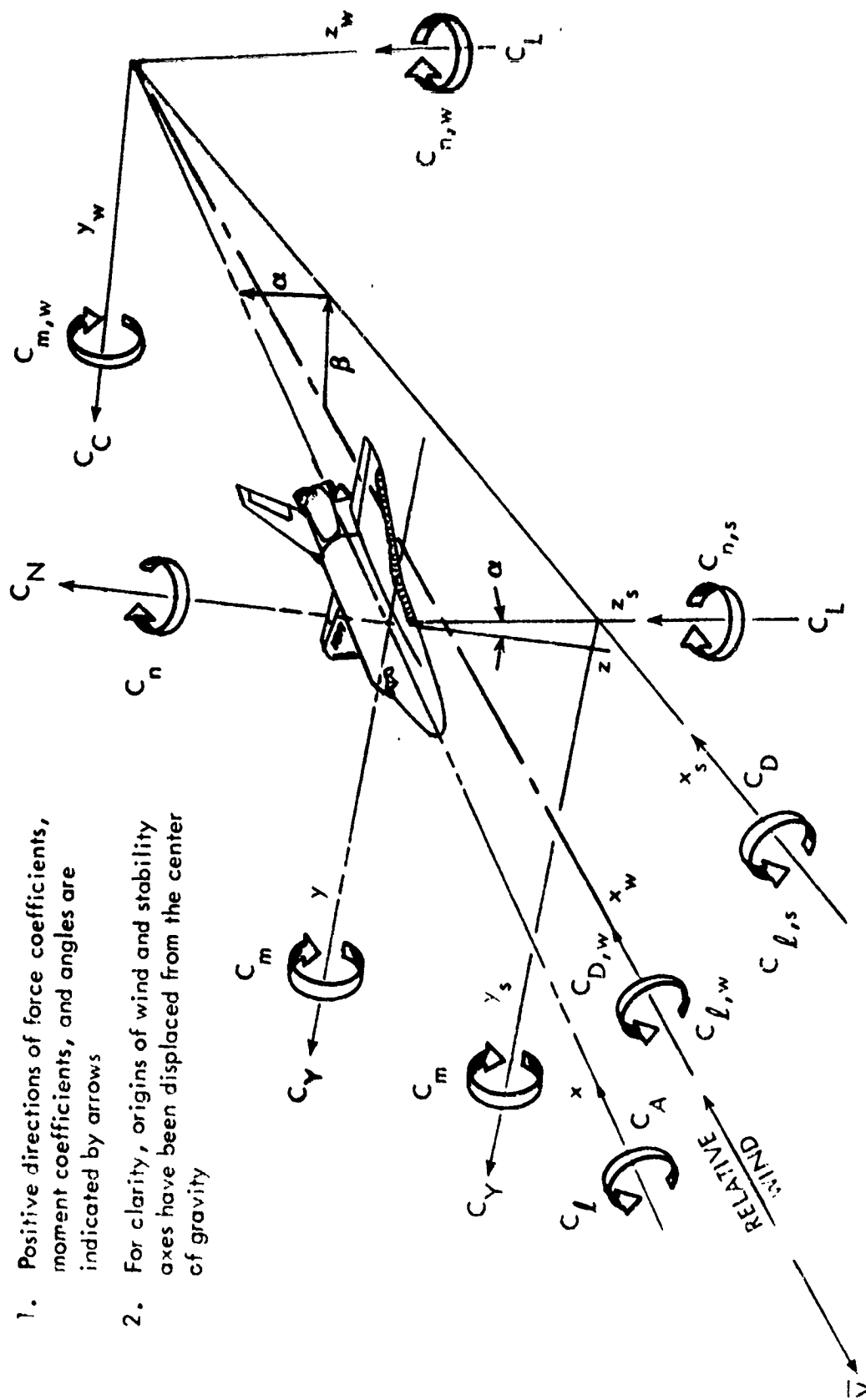
## BODYFLAP PRESSURE TAP LOCATIONS

ORBITER-X <sub>0</sub>		X <sub>0</sub> /L <sub>0</sub>	$\phi$ - DEGREES		No. TAPS	$\Sigma$ No TAPS
FULL SCALE	MODEL SCALE		0	40		
1555 U	46.65	1.018	200	201	2	2
1555 L	46.65	1.018	202	203	2	4
1590 U	47.70	1.046	204	205	2	6
1590 L	47.70	1.046	206	207	2	8



### Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

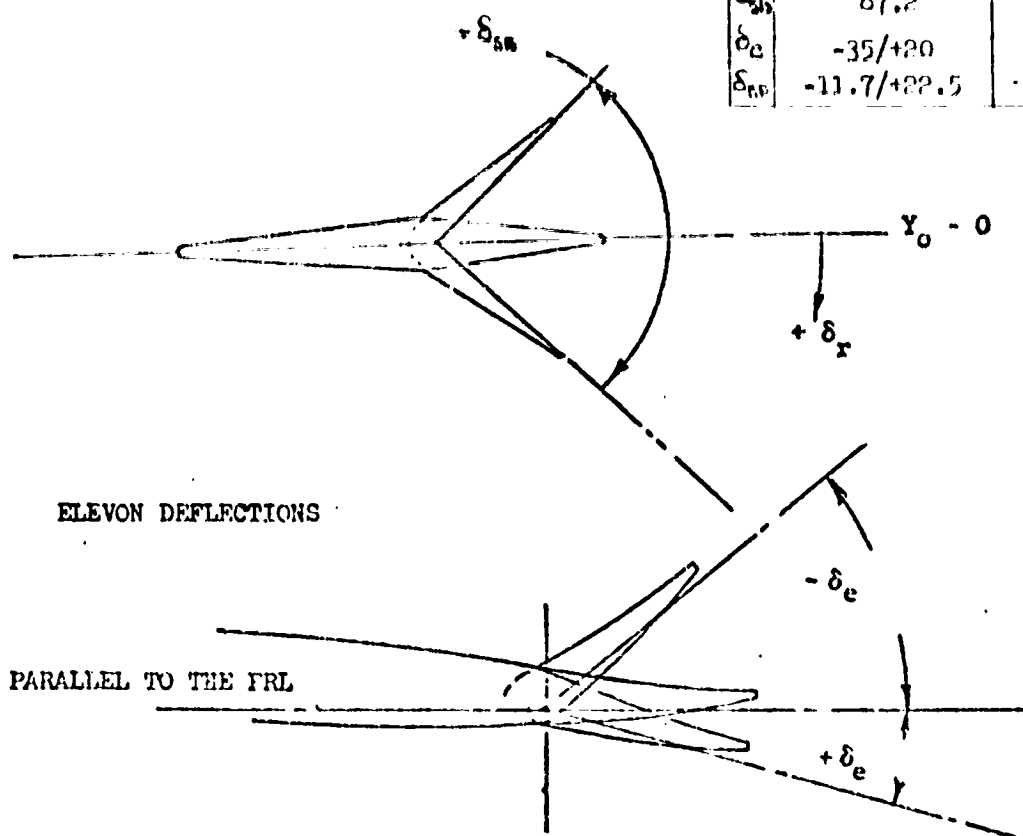


a. Orbiter Axis Systems

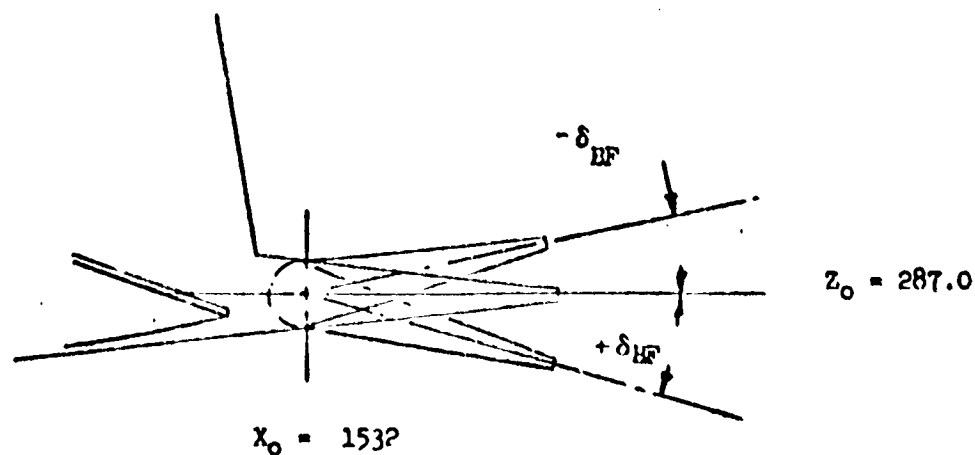
Figure 1. - Axis systems and sign conventions

RUDDER AND SPEED BRAKE DEFLECTIONS  
(PARALLEL TO THE FRL)

Maximum Deflections		
	Vehicle 1434000	Test CA148
$\delta_r$	22.8	$\pm 10$
$\delta_{sb}$	87.2	85
$\delta_e$	-35/+20	$\pm 10$
$\delta_{bf}$	-11.7/+22.5	-11.7/+22.5

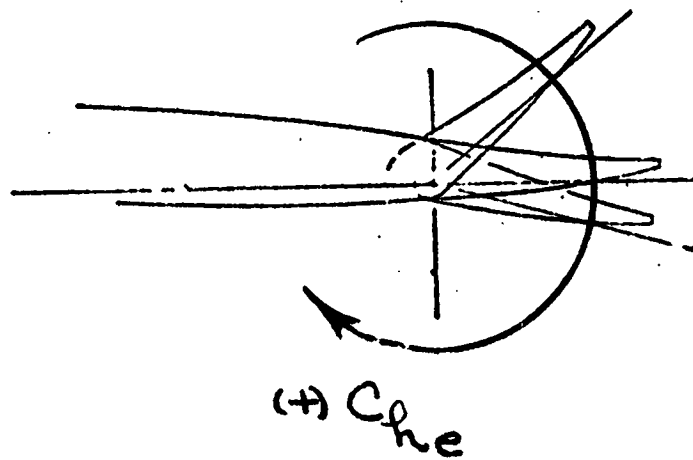


BODY FLAP DEFLECTIONS



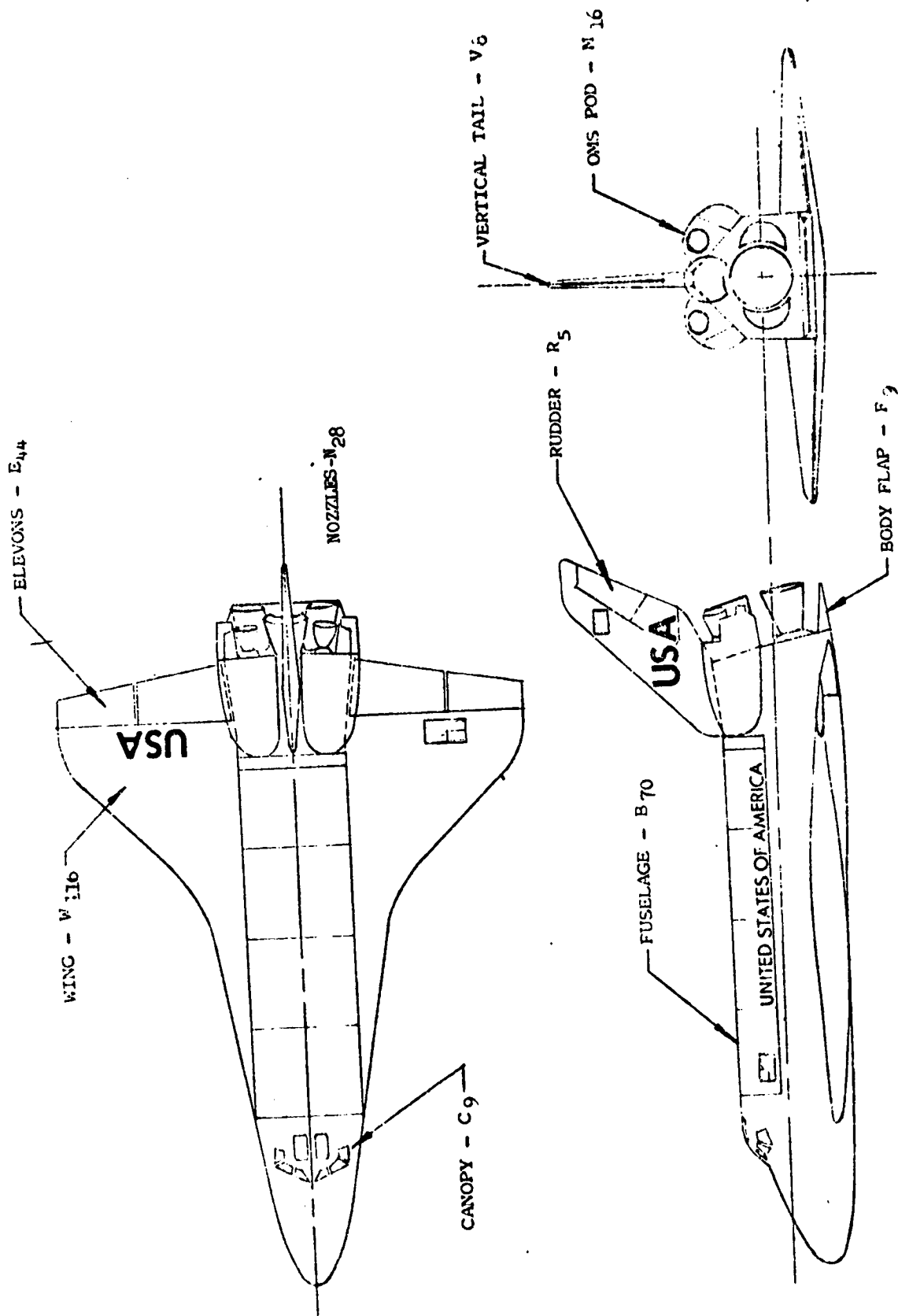
b. Definition of Angular Measurements

Figure 1. - Continued.



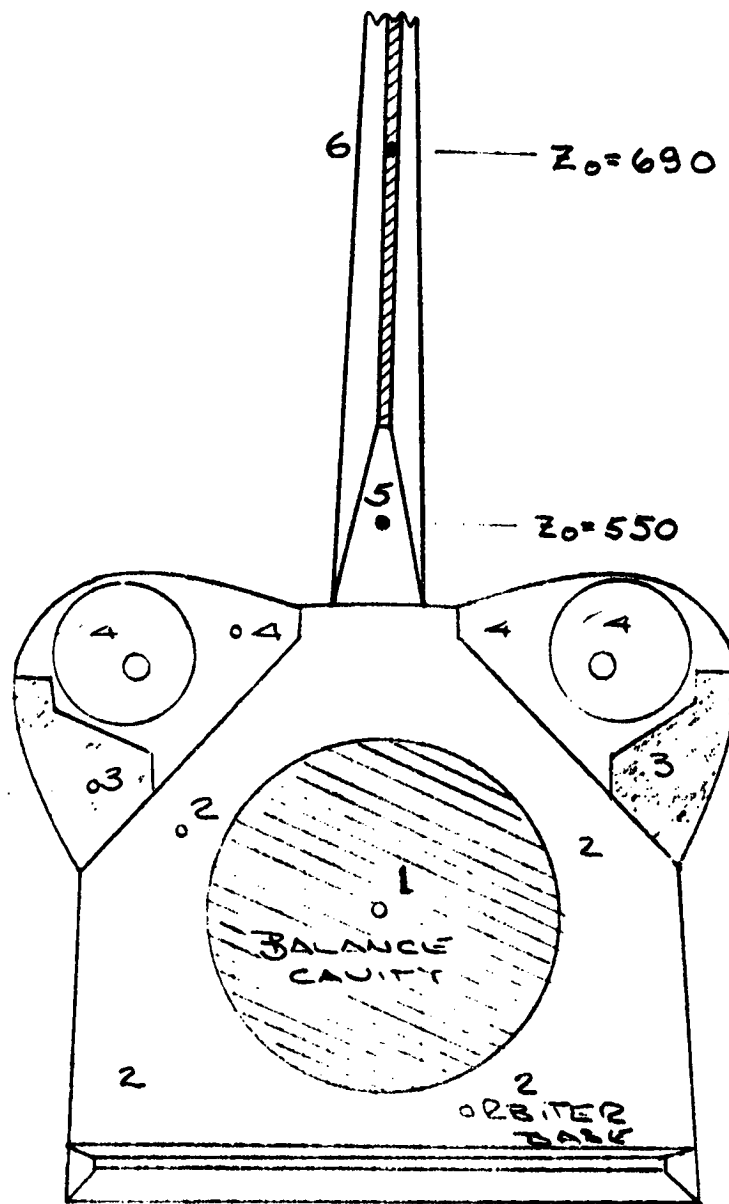
c. Elevon Hinge Moment Sign Convention

Figure 1. - Concluded.



a. Configuration - 140A/B/C/R

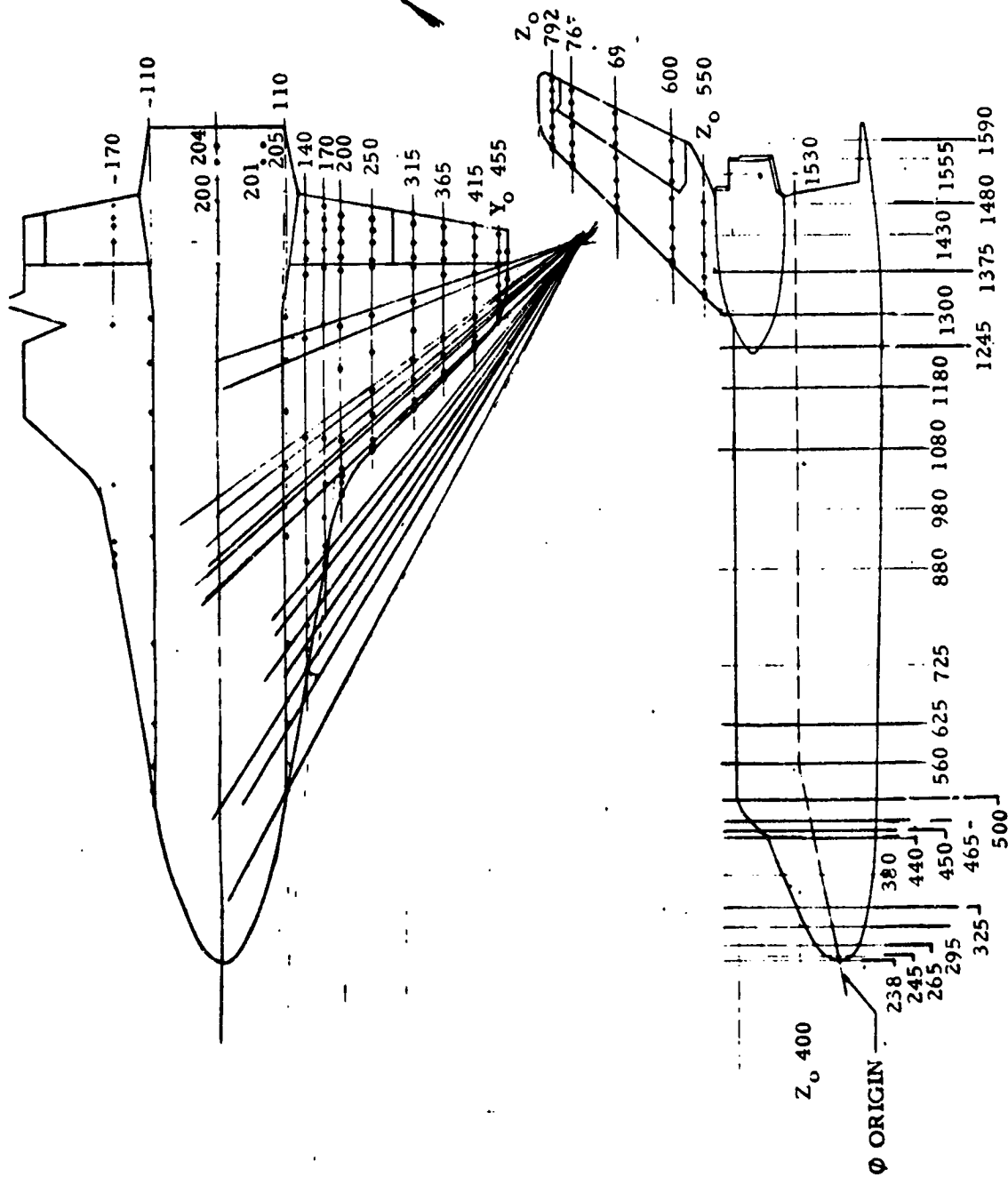
Figure 2. - Model sketches.



AREA NO.	PROJECTED AXIAL VALUE
A1	0.076699 ft <sup>2</sup>
A2	0.215695 ft <sup>2</sup>
A3	0.034072 ft <sup>2</sup>
A4	0.074167 ft <sup>2</sup>

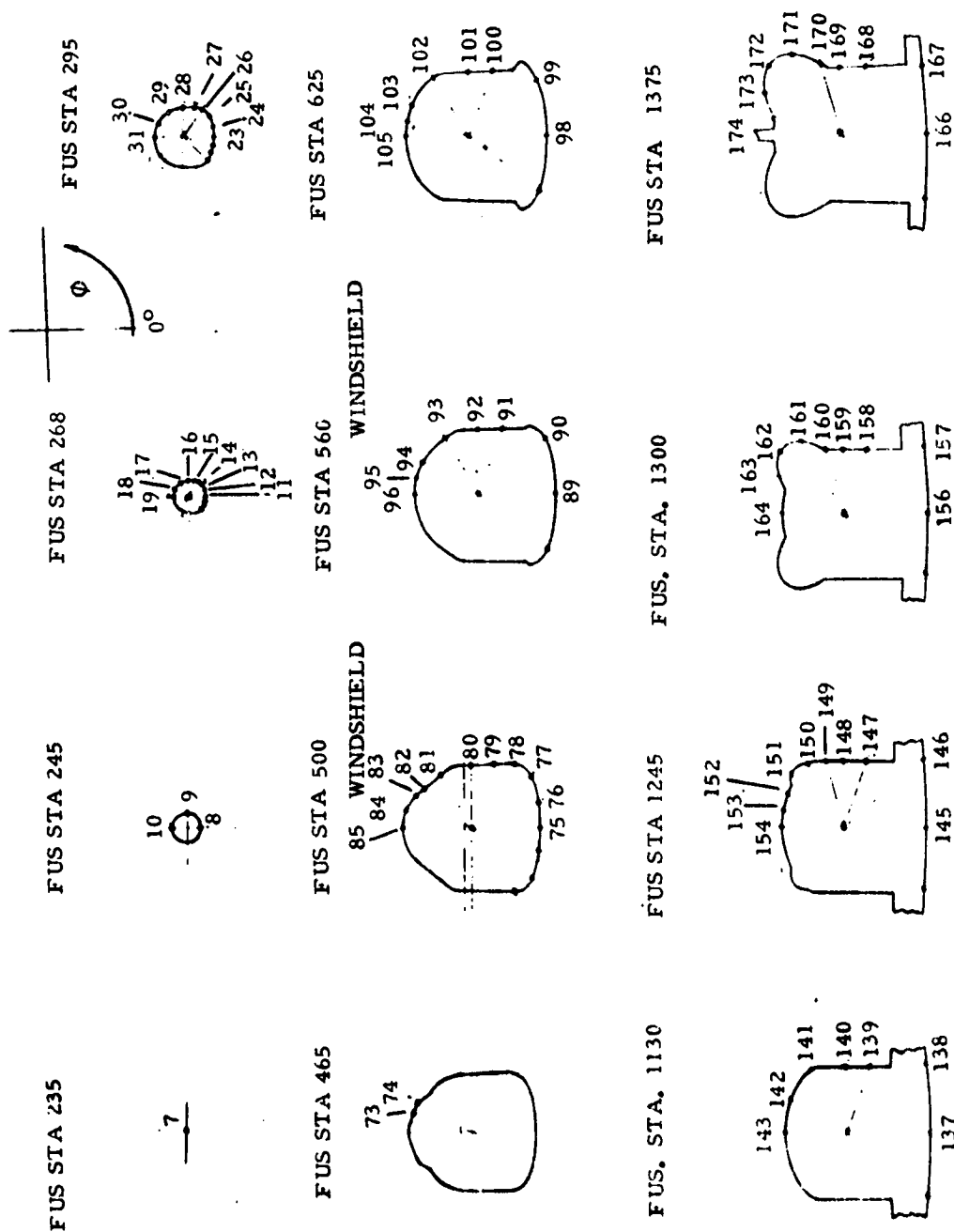
b. Base Pressure Taps and Areas  
Figure 2. - Continued.



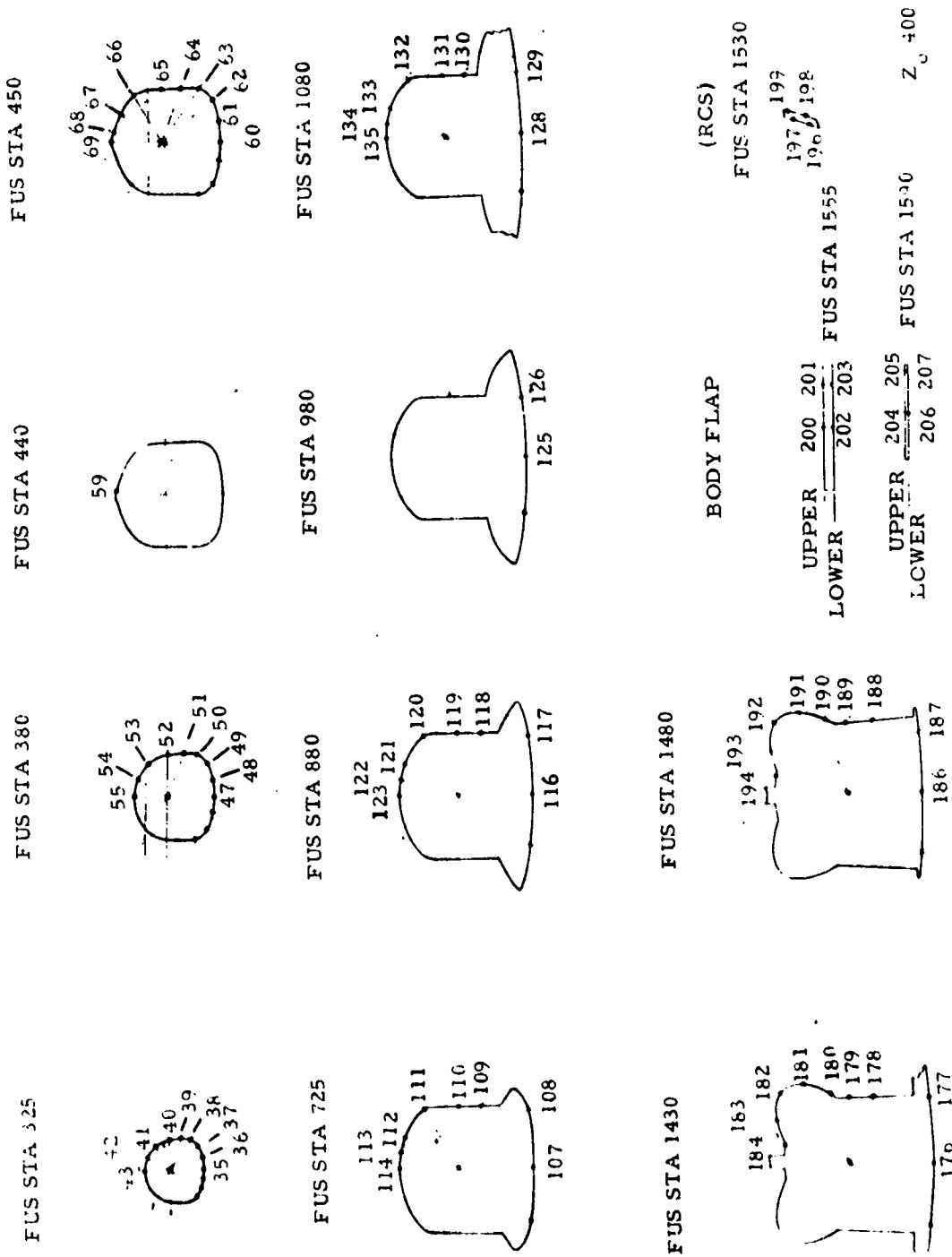


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2. - Continued.

NOTE: VIEW LOOKING AFT

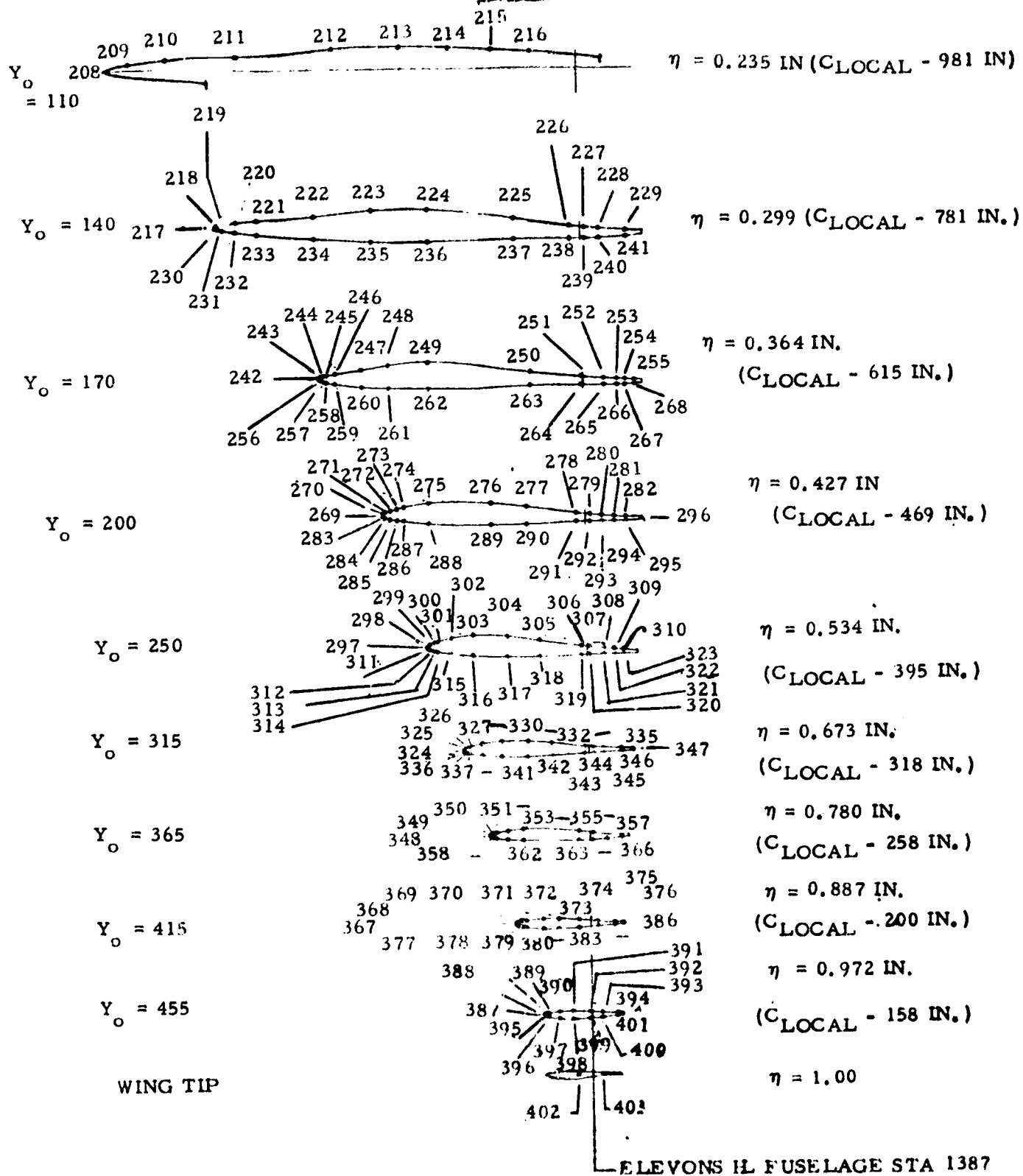


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2. - Continued.



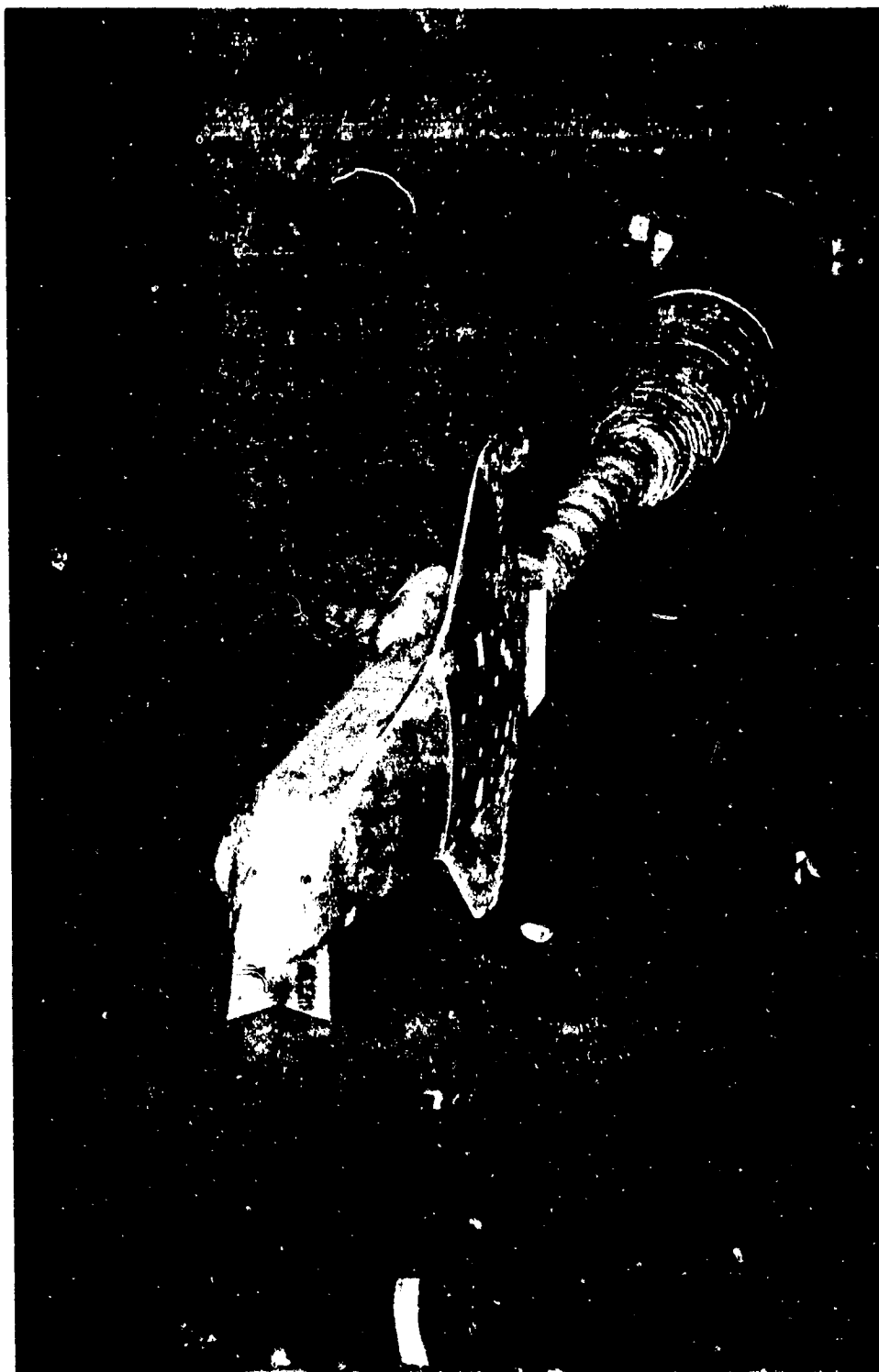
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2. - Continued.

# PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



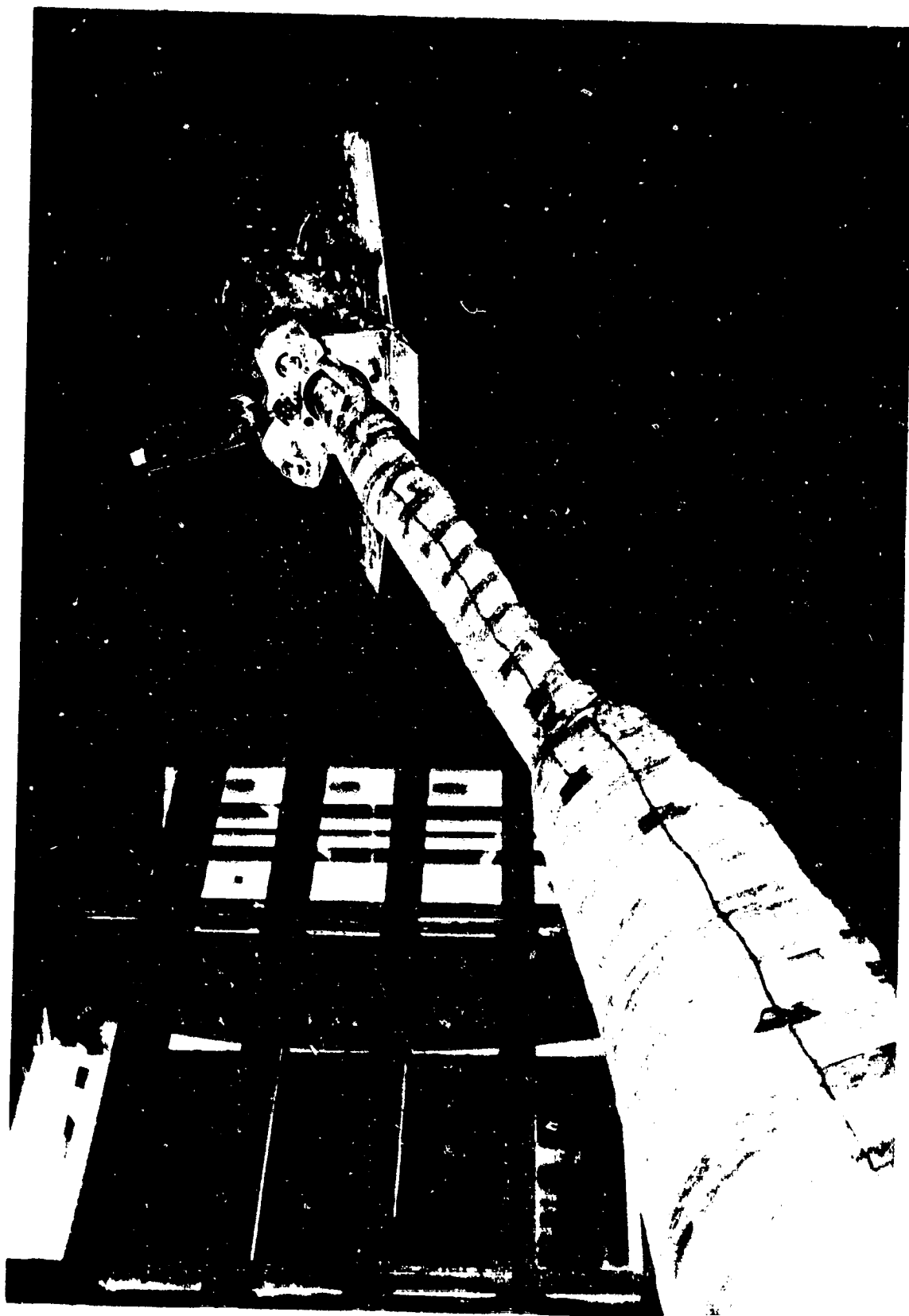
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 1 - Continued.





a. Three Quarter Front View of model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Model installation photographs.



b. Three Quarter Rear View of Model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Concluded.

# APPENDIX

VOLUME NO.	CONTENTS	PAGES
3	TABULATED FORCE DATA	1-723
	TABULATED PRESSURE DATA	
	<u>COMPONENT</u>	
4, 5	Orbiter fuselage	1-1270
6, 7, 8 (Note)	Lower wing	1271-3146
9, 10, 11 (Note)	Upper wing	3147- 5404
12	Upper body flap	5405-5773
12	Lower body flap	5774-6142
13	Speed brake	6143-6546
13	Vertical tail	6547-7114

Note: Data tabulated at  $2Y/BW = .673$ ,  $X/CW = .775$ ,  $.850$ ,  $.950$  &  $1.00$  were actually located at  $2Y/BW = .641$ ,  $X/CW = .775$ ,  $.850$ ,  $.950$  &  $1.00$  as shown in Table V on page 47.



(XEBK01) ( 13 AUG 75 )

DATE 14 FEB 76  
 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

P = 441.36 RN/L = 2.9078

REFERENCE DATA

REF = 2522.000 SQ.FT. XMRP = 1076.6000 IN. XO  
 REF = 274.000 IN. YMRP = .0000 IN. YO  
 REF = 938.000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -.009 BETA ( 1 ) = -3.981 MACH = 1.3933 0 = 599.80 P

SECTION UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

M/C:  
 .703 -.6279 -.5913 -.5975 -.5995 -.6059 -.5573  
 .717 -.5959 -.5930 -.5997 -.5993 -.5827 -.5559  
 .731 -.5959 -.5978 -.5995 -.6043 -.5909 -.5535  
 .745 -.5949 -.6030 -.6052 -.6121 -.5847 -.5552  
 .759 -.5920 -.6063 -.6124 -.6141 -.5804 -.5463

ALPHA ( 1 ) = -.009 BETA ( 2 ) = .154 MACH = 1.3933 0 = 599.80 P

SECTION UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

M/C:  
 .713 -.6244 -.5939 -.5959 -.5951 -.5985 -.5551  
 .727 -.5937 -.5952 -.5970 -.5970 -.5010 -.5517  
 .741 -.5911 -.5947 -.5968 -.6032 -.5999 -.5496  
 .755 -.5921 -.6015 -.6056 -.6087 -.5837 -.5468  
 .769 -.5937 -.6025 -.6142 -.6085 -.5758 -.5331

ALPHA ( 1 ) = -.009 BETA ( 3 ) = 4.236 MACH = 1.3933 0 = 599.80 P

SECTION UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

M/C:  
 .703 -.6322 -.5957 -.6027 -.6003 -.5972 -.5605  
 .717 -.6014 -.5993 -.6027 -.6037 -.4448 -.5574  
 .731 -.5983 -.6000 -.6039 -.6070 -.5913 -.5567  
 .745 -.5969 -.6024 -.6125 -.6106 -.5858 -.5564  
 .759 -.5938 -.6115 -.6189 -.6072 -.5777 -.5454

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(XEBK01)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 2 ) = - .076 BETA ( 1 ) = -3.908 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

## SECTION 1 (RIGHT) HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008 -.6232 -.5999 -.6039 -.6046 -.6106 -.5641  
 .009 -.6033 -.6044 -.6044 -.6044 -.6033 -.5626  
 .010 -.6038 -.6035 -.6044 -.6089 -.5970 -.5600  
 .011 -.6090 -.6089 -.6106 -.6168 -.5901 -.5562  
 .012 -.6051 -.6058 -.6168 -.6180 -.5855 -.5495

ALPHA ( 2 ) = -.071 BETA ( 2 ) = .147 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

## SECTION 1 (RIGHT) HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008 -.6263 -.5966 -.6018 -.6020 -.6061 -.5655  
 .009 -.6093 -.6025 -.6020 -.6042 -.6044 -.5634  
 .010 -.6053 -.6004 -.6030 -.6089 -.5980 -.5610  
 .011 -.6073 -.6096 -.6123 -.6155 -.5925 -.5585  
 .012 -.6037 -.6103 -.6192 -.6154 -.5865 -.5472

ALPHA ( 2 ) = -.058 BETA ( 3 ) = 4.215 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

## SECTION 1 (RIGHT) HANG INSIDE DEPENDENT VARIABLE CF

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008 -.6346 -.6060 -.6100 -.6086 -.6071 -.5710  
 .009 -.6077 -.6020 -.6100 -.6112 -.6064 -.5686  
 .010 -.6058 -.6060 -.6121 -.6155 -.6011 -.5670  
 .011 -.6053 -.6137 -.6207 -.6203 -.5971 -.5619  
 .012 -.6036 -.6153 -.6260 -.6176 -.5916 -.5503

ALPHA ( 2 ) = 3.022 BETA ( 1 ) = -3.904 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

## SECTION 1 (RIGHT) HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008 -.6257 -.6092 -.6051 -.6032 -.6161 -.5720  
 .009 -.6097 -.6004 -.6065 -.6056 -.6142 -.5699  
 .010 -.6004 -.6007 -.6058 -.6113 -.6051 -.5684  
 .011 -.6004 -.6139 -.6116 -.6189 -.5932 -.5677  
 .012 -.6000 -.6119 -.6192 -.6124 -.5942 -.5601

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XESK01)

ALPHA ( 1 ) = 3.825 BETA ( 2 ) = .146 MACH = 1.3940 Q = 600.01 P = 441.12 RAY/L = 2.9038

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6265	-.6002	-.6051	-.6048	-.6084	-.5726
.757	-.6011	-.6016	-.6065	-.6074	-.6247	-.5703
.805	-.6011	-.6016	-.6055	-.6115	-.6024	-.5693
.853	-.5939	-.6137	-.6127	-.6182	-.5974	-.5683
.901	-.5956	-.6142	-.6191	-.6184	-.5929	-.5556

ALPHA ( 3 ) = 3.827 BETA ( 3 ) = .4205 MACH = 1.3940 Q = 600.01 P = 441.12 RAY/L = 2.9038

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6357	-.6033	-.6121	-.6117	-.6183	-.5754
.757	-.6187	-.6079	-.6136	-.6143	-.6185	-.5725
.805	-.6072	-.6036	-.6124	-.6203	-.6107	-.5705
.853	-.6046	-.6202	-.6200	-.6281	-.6050	-.5702
.901	-.6034	-.6210	-.6281	-.6276	-.6007	-.5559

ALPHA ( 4 ) = 7.859 BETA ( 1 ) = -3.903 MACH = 1.3935 Q = 599.60 P = 441.12 RAY/L = 2.9058

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6316	-.6079	-.6130	-.6139	-.6221	-.5829
.757	-.6089	-.6026	-.6154	-.6142	-.6305	-.5817
.805	-.6081	-.6103	-.6139	-.6187	-.6116	-.5793
.853	-.6075	-.6324	-.6216	-.6244	-.6068	-.5824
.901	-.6045	-.6246	-.6266	-.6228	-.6023	-.5776

ALPHA ( 4 ) = 7.859 BETA ( 2 ) = .143 MACH = 1.3935 Q = 599.60 P = 441.12 RAY/L = 2.9058

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6295	-.6029	-.6121	-.6128	-.6174	-.5832
.757	-.6091	-.6070	-.6139	-.6152	-.6028	-.5816
.805	-.6074	-.6037	-.6143	-.6145	-.6126	-.5792
.853	-.6082	-.6194	-.6202	-.6235	-.6076	-.5753
.901	-.6041	-.6163	-.6262	-.6264	-.6028	-.5653

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK01)

ALPHA ( 4 ) = 7.869 BETA ( 3 ) = 4.207 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6352	-.6112	-.6188	-.6195	-.6233	-.5848
.757	-.6117	-.6125	-.6202	-.6202	-.1118	-.5839
.805	-.6117	-.6134	-.6202	-.6238	-.6171	-.5817
.857	-.6085	-.6211	-.6229	-.6303	-.6131	-.5820
.958	-.6048	-.6213	-.6286	-.6322	-.6104	-.5721

ALPHA ( 5 ) = 11.904 BETA ( 1 ) = -3.884 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6395	-.6084	-.6213	-.6227	-.6256	-.5869
.757	-.6168	-.6115	-.6198	-.6210	-.0885	-.5862
.805	-.6110	-.6094	-.6146	-.6217	-.6124	-.5853
.857	-.6082	-.6195	-.6177	-.6237	-.6082	-.5849
.958	-.6053	-.6184	-.6222	-.6232	-.6017	-.5727

ALPHA ( 5 ) = 11.913 BETA ( 2 ) = .151 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6411	-.6122	-.6233	-.6281	-.6288	-.5911
.757	-.6205	-.6127	-.6178	-.6262	-.2020	-.5894
.805	-.6131	-.6131	-.6150	-.6276	-.6195	-.5830
.857	-.6081	-.6195	-.6219	-.6305	-.6142	-.5861
.958	-.6059	-.6187	-.6276	-.6309	-.6104	-.5746

ALPHA ( 5 ) = 11.909 BETA ( 3 ) = 4.219 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6476	-.6141	-.6238	-.6288	-.6310	-.5926
.757	-.6220	-.6157	-.6181	-.6279	-.3491	-.5923
.805	-.6141	-.6162	-.6143	-.6303	-.6229	-.5902
.857	-.6119	-.6233	-.6212	-.6324	-.6190	-.5905
.958	-.6074	-.6226	-.6281	-.6338	-.6169	-.5826

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TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

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ALPHA ( 6 ) = 15.872 BETA ( 1 ) = -3.862 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239  
(XEBK011)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6472 -.6225 -.6327 -.6339 -.6763 -.6014  
.757 -.6299 -.6223 -.6308 -.6317 -.6756 -.6002  
.805 -.6211 -.6215 -.6279 -.6327 -.6212 -.5493  
.887 -.6187 -.6351 -.6324 -.6320 -.6172 -.6037  
.968 -.6165 -.6344 -.6355 -.6291 -.6112 -.5955

ALPHA ( 6 ) = 15.885 BETA ( 2 ) = .149 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6444 -.6204 -.6285 -.6354 -.6363 -.5994  
.757 -.6252 -.6180 -.6256 -.6344 -.6760 -.5965  
.805 -.6214 -.6185 -.6223 -.6354 -.6259 -.5941  
.887 -.6144 -.6304 -.6297 -.6378 -.6208 -.5970  
.968 -.6128 -.6239 -.6356 -.6373 -.6161 -.5979

ALPHA ( 6 ) = 15.901 BETA ( 3 ) = 4.249 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6514 -.6270 -.6329 -.6381 -.6338 -.6052  
.757 -.6295 -.6256 -.6314 -.6357 -.6917 -.6047  
.805 -.6277 -.6251 -.6300 -.6360 -.6276 -.6033  
.887 -.6244 -.6346 -.6338 -.6367 -.6252 -.6018  
.968 -.6220 -.6343 -.6371 -.6381 -.6240 -.5905

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK02) ( 13 AUG 75 )

## REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0600 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.081 BETA ( 1 ) = -3.888 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7483 -.7281 -.7350 -.7398 -.7496 -.6775  
 .757 -.7310 -.7315 -.7341 -.7396 -.5668 -.6753  
 .805 -.7291 -.7349 -.7350 -.7443 -.7341 -.6770  
 .887 -.7243 -.7407 -.7439 -.7558 -.7247 -.6803  
 .952 -.7171 -.7366 -.7515 -.7577 -.7183 -.6760

ALPHA ( 1 ) = -4.075 BETA ( 2 ) = .154 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7653 -.7164 -.7245 -.7264 -.7292 -.6729  
 .757 -.7255 -.7202 -.7226 -.7292 -.5101 -.6722  
 .805 -.7178 -.7188 -.7264 -.7342 -.7209 -.6734  
 .887 -.7159 -.7310 -.7350 -.7419 -.7142 -.6735  
 .968 -.7130 -.7324 -.7436 -.7421 -.7039 -.6531

ALPHA ( 1 ) = -4.083 BETA ( 3 ) = 4.234 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7671 -.7234 -.7290 -.7321 -.7304 -.6801  
 .757 -.7304 -.7263 -.7276 -.7326 -.4220 -.6774  
 .805 -.7244 -.7270 -.7328 -.7378 -.7213 -.6777  
 .887 -.7230 -.7368 -.7423 -.7423 -.7149 -.6815  
 .958 -.7218 -.7419 -.7483 -.7402 -.7034 -.6702

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 18.300 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
 ALPHA ( 2 ) = -.037 BETA ( 1 ) = -3.909 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131  
 (XEBK02)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7638	-.7203	-.7298	-.7355	-.7465	-.6782
.757	-.7319	-.7246	-.7288	-.7364	-.4508	-.6768
.805	-.7231	-.7270	-.7307	-.7429	-.7302	-.6759
.857	-.7200	-.7335	-.7391	-.7520	-.7217	-.6710
.908	-.7152	-.7332	-.7469	-.7539	-.7145	-.6600

ALPHA ( 2 ) = -.032 BETA ( 2 ) = .147 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7629	-.7195	-.7242	-.7278	-.7324	-.6780
.757	-.7286	-.7212	-.7235	-.7307	-.3524	-.6746
.805	-.7214	-.7228	-.7257	-.7355	-.7242	-.6761
.857	-.7195	-.7323	-.7331	-.7429	-.7168	-.6769
.908	-.7185	-.7330	-.7402	-.7450	-.7092	-.6568

ALPHA ( 2 ) = -.038 BETA ( 3 ) = 4.211 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7709	-.7272	-.7363	-.7389	-.7425	-.6861
.757	-.7364	-.7316	-.7346	-.7420	-.2659	-.6851
.805	-.7304	-.7325	-.7377	-.7485	-.7336	-.6859
.857	-.7284	-.7422	-.7475	-.7539	-.7267	-.6834
.908	-.7263	-.7445	-.7547	-.7544	-.7172	-.6592

ALPHA ( 3 ) = 3.858 BETA ( 1 ) = -3.910 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7659	-.7230	-.7325	-.7370	-.7461	-.6893
.757	-.7338	-.7259	-.7318	-.7392	-.2427	-.6862
.805	-.7237	-.7268	-.7330	-.7442	-.7358	-.6852
.857	-.7228	-.7353	-.7416	-.7521	-.7291	-.6800
.908	-.7211	-.7353	-.7475	-.7537	-.7251	-.6633

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK02)

ALPHA ( 3 ) = 3.859 BETA ( 2 ) = .139 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7553	-.7163	-.7233	-.7273	-.7335	-.6792
.757	-.7261	-.7182	-.7223	-.7297	-.1746	-.6770
.805	-.7180	-.7202	-.7259	-.7357	-.7245	-.6780
.887	-.7178	-.7301	-.7347	-.7423	-.7197	-.6765
.968	-.7144	-.7318	-.7395	-.7454	-.7118	-.6571

ALPHA ( 3 ) = 3.850 BETA ( 3 ) = 4.204 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7597	-.7228	-.7329	-.7415	-.7439	-.6847
.757	-.7290	-.7257	-.7315	-.7413	-.0709	-.6821
.805	-.7242	-.7281	-.7327	-.7451	-.7232	-.6819
.887	-.7245	-.7294	-.7422	-.7530	-.7277	-.6845
.968	-.7242	-.7401	-.7504	-.7506	-.7229	-.6704

ALPHA ( 4 ) = 7.842 BETA ( 1 ) = -3.905 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7497	-.7134	-.7246	-.7292	-.7342	-.6791
.757	-.7239	-.7181	-.7244	-.7323	-.0154	-.6793
.805	-.7177	-.7179	-.7280	-.7349	-.7268	-.6795
.887	-.7138	-.7297	-.7363	-.7423	-.7191	-.6770
.968	-.7124	-.7313	-.7413	-.7420	-.7129	-.6589

ALPHA ( 4 ) = 7.841 BETA ( 2 ) = .143 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7463	-.7097	-.7131	-.7235	-.7269	-.6718
.757	-.7159	-.7121	-.7184	-.7262	-.0756	-.6706
.805	-.7102	-.7129	-.7192	-.7305	-.7161	-.6708
.887	-.7083	-.7222	-.7276	-.7371	-.7095	-.6686
.968	-.7065	-.7254	-.7357	-.7402	-.6999	-.6543

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ALPHA ( 4 ) = 7.841 BETA ( 3 ) = 4.209 MACH = 1.2455 Q = 599.60 P = 551.34 RV/L = 3.0137  
(XEBK02)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7496	-.7183	-.7223	-.7328	-.7326	-.6787
.757	-.7211	-.7178	-.7245	-.7350	-.2035	-.6753
.805	-.7171	-.7183	-.7252	-.7340	-.7257	-.6753
.853	-.7159	-.7283	-.7324	-.7409	-.7209	-.6775
.901	-.7156	-.7314	-.7171	-.7424	-.7190	-.6646

ALPHA ( 5 ) = 11.942 BETA ( 1 ) = -3.887 MACH = 1.2452 Q = 599.20 P = 552.04 RV/L = 3.0172

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7353	-.7073	-.7105	-.7198	-.7186	-.6670
.757	-.7130	-.7090	-.7129	-.7232	-.2610	-.6639
.805	-.7049	-.7090	-.7174	-.7251	-.7091	-.6639
.853	-.7046	-.7182	-.7241	-.7292	-.7036	-.6616
.901	-.7051	-.7213	-.7330	-.7292	-.6940	-.6438

ALPHA ( 5 ) = 11.952 BETA ( 2 ) = .148 MACH = 1.2452 Q = 599.20 P = 552.04 RV/L = 3.0172

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7523	-.7149	-.7255	-.7293	-.7357	-.6798
.757	-.7243	-.7156	-.7245	-.7317	-.4084	-.6776
.805	-.7175	-.7171	-.7271	-.7372	-.7267	-.6776
.853	-.7161	-.7274	-.7357	-.7455	-.7183	-.6755
.901	-.7133	-.7310	-.7436	-.7487	-.7114	-.6609

ALPHA ( 5 ) = 11.946 BETA ( 3 ) = 4.215 MACH = 1.2452 Q = 599.20 P = 552.04 RV/L = 3.0172

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.7382	-.7389	-.7132	-.7254	-.7283	-.6687
.757	-.7127	-.7084	-.7139	-.7281	-.5064	-.6666
.805	-.7034	-.7118	-.7156	-.7300	-.7185	-.6678
.853	-.7050	-.7215	-.7245	-.7348	-.7139	-.6667
.901	-.7067	-.7229	-.7319	-.7348	-.7137	-.6555

(XEBK03) ( 13 AUG 75 )

TABULATED PRESSURE DATA - 0A148 ( JMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

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REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.048 BETA ( 1 ) = -3.881 MACH = 1.0973 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8795	-.8515	-.8598	-.8921	-.8830	-.7799
.757	-.8572	-.8522	-.8653	-.8904	-.5686	-.7813
.805	-.8438	-.8500	-.8749	-.8928	-.8627	-.7803
.857	-.9355	-.8616	-.8930	-.9035	-.8439	-.7736
.908	-.8407	-.8733	-.9117	-.8990	-.8329	-.7619

ALPHA ( 1 ) = -4.035 BETA ( 2 ) = .153 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8770	-.8405	-.8509	-.8745	-.8700	-.7811
.757	-.8479	-.8441	-.8552	-.8762	-.5193	-.7823
.805	-.8359	-.8419	-.8526	-.8793	-.8528	-.7837
.857	-.8307	-.8621	-.8793	-.8870	-.8401	-.7895
.908	-.8376	-.8766	-.8934	-.8867	-.8301	-.7676

ALPHA ( 1 ) = -4.044 BETA ( 3 ) = 4.236 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8613	-.8305	-.8378	-.8614	-.8571	-.7699
.757	-.8327	-.8303	-.8449	-.8655	-.4404	-.7659
.805	-.8233	-.8315	-.8526	-.8688	-.8399	-.7683
.857	-.8217	-.8495	-.8712	-.8791	-.8275	-.7695
.908	-.8301	-.8541	-.8860	-.8779	-.8153	-.7461

PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
BDFLAP = 16.300 L-ELVN = .000  
R-ELVN = .000 MACH = 1.100

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK03)

ALPHA ( 2 ) = -.027 BETA ( 1 ) = -3.903 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8372	-.8156	-.8235	-.8575	-.8570	-.7489
.757	-.8178	-.8156	-.8314	-.8598	-.3948	-.7493
.805	-.8089	-.8166	-.8405	-.8618	-.8350	-.7489
.887	-.8034	-.8313	-.8594	-.8723	-.8171	-.7444
.958	-.8101	-.8442	-.8773	-.8706	-.8076	-.7269

ALPHA ( 2 ) = -.023 BETA ( 2 ) = .144 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8218	-.8017	-.8061	-.8386	-.8390	-.7419
.757	-.8022	-.8024	-.8147	-.8431	-.3307	-.7390
.805	-.7911	-.7990	-.8259	-.8431	-.8144	-.7385
.887	-.7906	-.8155	-.8464	-.8548	-.8011	-.7404
.958	-.7988	-.8367	-.8605	-.8519	-.7927	-.7202

ALPHA ( 2 ) = -.029 BETA ( 3 ) = 4.209 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8075	-.7905	-.8044	-.8345	-.8343	-.7271
.757	-.7943	-.7917	-.8128	-.8419	-.8569	-.7259
.805	-.7927	-.7997	-.8264	-.8448	-.8099	-.7266
.887	-.7907	-.8132	-.8462	-.8534	-.7949	-.7211
.958	-.7943	-.8321	-.8643	-.8522	-.7813	-.6917

ALPHA ( 3 ) = 3.893 BETA ( 1 ) = -3.903 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.8152	-.7934	-.8128	-.8465	-.8400	-.7357
.757	-.7994	-.7946	-.8194	-.8469	-.1539	-.7321
.805	-.7915	-.7955	-.8287	-.8499	-.8154	-.7321
.887	-.7972	-.8128	-.8439	-.8538	-.8470	-.7245
.958	-.7955	-.8277	-.8557	-.8557	-.7870	-.7035

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK03)

ALPHA ( 3 ) = 3.894 BETA ( 2 ) = .147 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7736 -.7544 -.7765 -.8080 -.8147 -.7120  
 .757 -.7520 -.7551 -.7846 -.8142 -.8720 -.7101  
 .805 -.7465 -.7599 -.7923 -.8109 -.7870 -.7113  
 .837 -.7530 -.7855 -.8138 -.8236 -.7720 -.7116  
 .968 -.7575 -.8063 -.8337 -.8236 -.7655 -.6920

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.201 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5170 .6020 .6970 .7920

X/CV

.708 -.7737 -.7564 -.7838 -.8252 -.8206 -.7038  
 .757 -.7624 -.7605 -.7915 -.8223 -.8283 -.7045  
 .805 -.7550 -.7622 -.8063 -.8288 -.7884 -.7012  
 .887 -.7557 -.8017 -.8290 -.8347 -.7719 -.7015  
 .968 -.7706 -.8212 -.8474 -.8261 -.7638 -.6787

ALPHA ( 4 ) = 7.886 BETA ( 1 ) = -3.898 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7769 -.7561 -.7829 -.8136 -.8074 -.7077  
 .757 -.7659 -.7685 -.7917 -.8198 -.8153 -.7070  
 .805 -.7604 -.7695 -.8010 -.8203 -.7788 -.7041  
 .887 -.7601 -.7952 -.8148 -.8215 -.7716 -.7068  
 .968 -.7571 -.8098 -.8284 -.8218 -.7537 -.6849

ALPHA ( 4 ) = 7.886 BETA ( 2 ) = .144 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7718 -.7658 -.7194 -.7655 -.7655 -.6652  
 .757 -.7644 -.7104 -.7323 -.7674 -.7557 -.6831  
 .805 -.6955 -.7113 -.7450 -.7841 -.7409 -.6676  
 .837 -.7008 -.7324 -.7670 -.7751 -.7290 -.6691  
 .968 -.7032 -.7610 -.7870 -.7744 -.7192 -.6471

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.936 BETA ( 3 ) = 4.200 MACH = 1.0976 O = 599.38 P = 710.48 RN/L = 3.1859  
 (XEPX03)

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7544 -.7443 -.7553 -.8079 -.8019 -.6909  
 .757 -.7477 -.7513 -.7775 -.8117 -.3943 -.6887  
 .805 -.7395 -.7538 -.7854 -.8067 -.7682 -.6851  
 .887 -.7448 -.7820 -.8102 -.8141 -.7606 -.6845  
 .959 -.7529 -.7990 -.8203 -.8138 -.7496 -.6658

ALPHA ( 5 ) = 11.990 BETA ( 1 ) = -3.881 MACH = 1.0978 O = 599.38 P = 710.48 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7764 -.7578 -.7781 -.8000 -.7871 -.7001  
 .757 -.7597 -.7671 -.7657 -.8048 -.5247 -.6965  
 .805 -.7557 -.7685 -.7926 -.8079 -.7630 -.6981  
 .887 -.7699 -.7854 -.8039 -.8054 -.7530 -.6989  
 .959 -.7551 -.8007 -.8138 -.8069 -.7396 -.6776

ALPHA ( 5 ) = 11.997 BETA ( 2 ) = .149 MACH = 1.0973 O = 599.38 P = 710.48 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7539 -.7570 -.7958 -.8202 -.8149 -.7143  
 .757 -.7532 -.7675 -.7970 -.8230 -.6363 -.7129  
 .805 -.7627 -.7620 -.8030 -.8233 -.7927 -.7085  
 .887 -.7581 -.7924 -.8276 -.8283 -.7769 -.7120  
 .959 -.7551 -.8196 -.8424 -.8240 -.7574 -.6897

ALPHA ( 5 ) = 11.992 BETA ( 3 ) = 4.212 MACH = 1.0978 O = 599.38 P = 710.48 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7559 -.7537 -.7720 -.8049 -.7978 -.6870  
 .757 -.7503 -.7546 -.7796 -.8035 -.7350 -.6886  
 .805 -.7506 -.7528 -.7916 -.8009 -.7725 -.6853  
 .887 -.7549 -.7941 -.8102 -.8091 -.7569 -.6966  
 .959 -.7535 -.8121 -.8236 -.8042 -.7550 -.6841

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AXES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK04) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 336.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.058 BETA ( 1 ) = -3.880 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733  
 ALPHA ( 2 ) = -.036 BETA ( 2 ) = .153 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/COV

.709 -.4861 -.4931 -.5152 -.5634 -.5479 -.4368  
 .757 -.4802 -.4986 -.5271 -.5701 .4762 .4387  
 .805 -.4691 -.5065 -.5517 -.5646 -.5259 -.4313  
 .857 -.4744 -.5414 -.5971 -.5754 -.5083 -.4335  
 .908 -.5056 -.5845 -.6110 -.5732 -.5030 -.4198

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/COV

.709 -.4487 -.4410 -.4614 -.5056 -.5163 -.4105  
 .757 -.4376 -.4501 -.4767 -.5135 -.4017 -.4146  
 .805 -.4420 -.4516 -.4910 -.5084 -.4998 -.4110  
 .857 -.4460 -.4982 -.5221 -.5295 -.4774 -.4138  
 .908 -.4628 -.5146 -.5357 -.5235 -.4762 -.3984

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/COV

.709 -.4796 -.4375 -.4881 -.5424 -.5138 -.4321  
 .757 -.4710 -.4971 -.5076 -.5646 -.3500 -.4275  
 .805 -.4799 -.4929 -.5343 -.5596 -.5272 -.4175  
 .857 -.4763 -.5385 -.5739 -.5663 -.4967 -.4371  
 .908 -.5124 -.5890 -.5993 -.5715 -.4976 -.4241

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XE8X04)

ALPHA ( 2 ) = -.025 BETA ( 1 ) = -3.907 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5150	-.5219	-.5379	-.6083	-.5842	-.4652
.757	-.4975	-.5226	-.5687	-.6160	-.2556	-.4523
.805	-.4393	-.5395	-.6021	-.6081	-.5563	-.4539
.887	-.5346	-.5773	-.6293	-.6224	-.5434	-.4459
.968	-.5327	-.6220	-.6594	-.6217	-.5293	-.4195

ALPHA ( 2 ) = -.020 BETA ( 2 ) = .144 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4612	-.4590	-.4821	-.5386	-.5336	-.4335
.757	-.4597	-.4634	-.4977	-.5470	-.1994	-.4364
.805	-.4602	-.4747	-.5211	-.5467	-.5300	-.4326
.887	-.4588	-.5055	-.5472	-.5549	-.5053	-.4288
.968	-.4739	-.5355	-.5819	-.5599	-.4898	-.4105

ALPHA ( 2 ) = -.027 BETA ( 3 ) = 4.215 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5158	-.5067	-.5216	-.5853	-.5565	-.4477
.757	-.5000	-.5187	-.5400	-.5934	-.1218	-.4427
.805	-.5045	-.5247	-.5525	-.5938	-.5597	-.4340
.887	-.5007	-.5526	-.6137	-.6025	-.5274	-.4391
.968	-.5310	-.6278	-.6322	-.6027	-.5245	-.4237

ALPHA ( 3 ) = 3.898 BETA ( 1 ) = -3.912 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5282	-.5347	-.5571	-.6210	-.5702	-.4237
.757	-.5069	-.5273	-.5938	-.6337	-.0720	-.4173
.805	-.5093	-.5513	-.6143	-.6184	-.5585	-.4104
.887	-.5103	-.6021	-.6621	-.6384	-.5277	-.4126
.968	-.5479	-.6597	-.6962	-.6205	-.5115	-.3819

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )  
 AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBKON)

ALPHA ( 3 ) = 3.896 BETA ( 2 ) = .152 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

## SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4833 -.4258 -.4505 -.5541 -.5492 -.4511  
 .757 -.4713 -.4203 -.5139 -.5858 -.1932 -.4487  
 .805 -.4742 -.4335 -.5353 -.5834 -.5430 -.4347  
 .857 -.4751 -.5222 -.5752 -.5808 -.5120 -.4347  
 .909 -.4954 -.5535 -.5966 -.5824 -.5052 -.4165

ALPHA ( 3 ) = 3.899 BETA ( 3 ) = 4.208 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

## SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5249 -.5131 -.5353 -.6084 -.5509 -.4283  
 .757 -.5141 -.5294 -.5716 -.6192 -.2939 -.4269  
 .805 -.5271 -.5400 -.5970 -.6070 -.5564 -.4178  
 .857 -.5102 -.5942 -.6504 -.6323 -.5234 -.4187  
 .909 -.5395 -.5335 -.6774 -.6208 -.5115 -.3928

ALPHA ( 4 ) = 7.895 BETA ( 1 ) = -3.903 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

## SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5581 -.5575 -.5885 -.6568 -.5937 -.4284  
 .757 -.5434 -.5562 -.6205 -.6733 -.4912 -.4169  
 .805 -.5371 -.5745 -.6527 -.6606 -.5804 -.4098  
 .857 -.5386 -.6305 -.7015 -.6594 -.5476 -.3857  
 .909 -.5727 -.6772 -.7325 -.6537 -.5276 -.3703

ALPHA ( 4 ) = 7.900 BETA ( 2 ) = .140 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

## SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4993 -.4978 -.5104 -.5771 -.5680 -.4511  
 .757 -.4925 -.5059 -.5203 -.5838 -.6118 -.4425  
 .805 -.4841 -.5149 -.5537 -.5814 -.5506 -.4370  
 .857 -.4951 -.5473 -.6001 -.6008 -.5305 -.4294  
 .909 -.5130 -.6204 -.6252 -.5924 -.5195 -.4165



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK04)  
F = 1059.7 RN/L = 3.5708

ALPHA ( 4 ) = 7.997 BETA ( 3 ) = 4.209 MACH = .8990 Q = 599.51 P = 599.10

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5555 -.5510 -.5740 -.6519 -.5790 -.4198  
.757 -.5340 -.5560 -.6007 -.6569 -.7253 -.4140  
.805 -.5333 -.5633 -.6438 -.6355 -.5597 -.4028  
.897 -.5359 -.6335 -.6836 -.6507 -.5232 -.4117  
.959 -.5733 -.7006 -.7179 -.6307 -.5111 -.3929

ALPHA ( 5 ) = 11.935 BETA ( 1 ) = -3.890 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.6047 -.5553 -.6236 -.6740 -.6019 -.4297  
.757 -.5709 -.6044 -.6530 -.6758 -.9182 -.4323  
.805 -.5728 -.6143 -.6847 -.6673 -.5819 -.4273  
.897 -.5678 -.6693 -.7159 -.6716 -.5518 -.4237  
.959 -.5994 -.7038 -.7338 -.6673 -.5337 -.3836

ALPHA ( 5 ) = 11.933 BETA ( 2 ) = .152 MACH = .89930 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5600 -.5528 -.5802 -.6482 -.5941 -.4208  
.757 -.5374 -.5543 -.6054 -.6477 -.5725 -.4245  
.805 -.5360 -.5744 -.6312 -.6334 -.5793 -.4409  
.897 -.5447 -.6217 -.6789 -.6532 -.5629 -.4112  
.959 -.5735 -.6692 -.7078 -.6410 -.5699 -.4120

ALPHA ( 5 ) = 11.982 BETA ( 3 ) = 4.222 MACH = .89930 Q = 599.10 P = 1060.7 RN/L = 3.5735

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5905 -.6112 -.6361 -.6714 -.6257 -.4352  
.757 -.5730 -.6137 -.6607 -.6940 -.6516 -.4209  
.805 -.5809 -.6205 -.6970 -.6716 -.5926 -.4161  
.897 -.5916 -.6835 -.7409 -.6993 -.6141 -.4112  
.959 -.6333 -.7534 -.7905 -.6650 -.5555 -.3928

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK05) ( 13 AUG 75 )

## REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 REF = 174.8000 IN. YMRP = .0000 IN. Y0  
 REF = 335.0000 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = -7.893 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6730 -.7100 -.7185 -.7230 -.5639 -.3952  
 .757 -.6670 -.7013 -.7555 -.7488 .5252 -.3794  
 .805 -.6561 -.6977 -.7865 -.7062 -.5574 -.3727  
 .887 -.6520 -.7737 -.8577 -.7011 -.5148 -.3755  
 .958 -.7088 -.8717 -.8413 -.6843 -.5107 -.3600

ALPHA ( 1 ) = -3.981 BETA ( 2 ) = -3.877 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5414 -.5806 -.5920 -.6221 -.5426 -.4088  
 .757 -.5508 -.5971 -.6192 -.6252 .4582 -.4006  
 .805 -.5513 -.6045 -.6406 -.6170 -.5450 -.3907  
 .887 -.5585 -.6343 -.6933 -.6173 -.5097 -.3843  
 .958 -.5810 -.7307 -.6960 -.6081 -.4954 -.3566

ALPHA ( 1 ) = -3.973 BETA ( 3 ) = .156 MACH = .59580 Q = 593.15 P = 2387.2 RN/L = 4.8118

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5310 -.5558 -.5650 -.6155 -.5438 -.4016  
 .757 -.5407 -.5837 -.5958 -.6298 .4112 -.3929  
 .805 -.5373 -.5859 -.6368 -.6235 -.5332 -.3794  
 .887 -.5395 -.6394 -.6534 -.6194 -.4951 -.3710  
 .958 -.5625 -.6918 -.6920 -.6031 -.4891 -.3565

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK05)

ALPHA ( 1 ) = -3.981 BETA ( 4 ) = 4.231 MACH = .59580 Q = 593.15 P = 2387.2 RV/L = 4.8118

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5475 -.5733 -.5541 -.5957 -.5212 -.4001  
 .757 -.5482 -.5840 -.5914 -.6094 .3270 -.3989  
 .805 -.5505 -.5951 -.6325 -.6022 -.5255 -.3837  
 .887 -.5504 -.6407 -.6606 -.6027 -.4931 -.3849  
 .969 -.5922 -.6836 -.6856 -.5878 -.4731 -.3513

ALPHA ( 1 ) = -3.995 BETA ( 5 ) = 8.308 MACH = .59580 Q = 593.15 P = 2387.2 RV/L = 4.8118

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6706 -.6815 -.6611 -.6538 -.5396 -.3860  
 .757 -.6592 -.6900 -.6804 -.6685 .2515 -.3737  
 .805 -.6561 -.6975 -.7175 -.6601 -.5301 -.3679  
 .887 -.6595 -.7428 -.7498 -.6534 -.5031 -.3616  
 .968 -.6941 -.8008 -.7758 -.6264 -.4687 -.3326

ALPHA ( 2 ) = -.001 BETA ( 1 ) = -7.930 MACH = .59552 Q = 592.56 P = 2387.2 RV/L = 4.8092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7608 -.7951 -.8232 -.7988 -.5790 -.3673  
 .757 -.7387 -.7893 -.8210 -.8157 .2923 -.3459  
 .805 -.7350 -.8133 -.9119 -.7860 -.5568 -.3324  
 .887 -.7392 -.8735 -.9396 -.7622 -.5064 -.2997  
 .968 -.7622 -.9355 -.9818 -.7193 -.4452 -.2755

ALPHA ( 2 ) = .003 BETA ( 2 ) = -3.896 MACH = .59552 Q = 592.56 P = 2387.2 RV/L = 4.8092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6030 -.6451 -.6533 -.6697 -.5564 -.3931  
 .757 -.5906 -.6344 -.6745 -.6779 .2050 -.3827  
 .805 -.6022 -.6436 -.7078 -.6603 -.5584 -.3680  
 .887 -.6051 -.7025 -.7562 -.6473 -.5150 -.3716  
 .968 -.6315 -.7723 -.7595 -.6455 -.4866 -.3440

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK05)

ALPHA ( 2 ) = .009 BETA ( 3 ) = .144 MACH = .59552 Q = 592.56 P = 2387.2 RVL = 4.8092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5817 -.5914 -.6077 -.6470 -.5536 -.4091  
 .757 -.5728 -.5979 -.6542 -.6621 .1378 -.4038  
 .805 -.5701 -.6204 -.6797 -.6446 -.5564 -.3894  
 .887 -.5795 -.6907 -.7250 -.6499 -.5158 -.3690  
 .968 -.6199 -.7460 -.7351 -.6384 -.5001 -.3412

ALPHA ( 2 ) = .008 BETA ( 4 ) = 4.214 MACH = .59552 Q = 592.56 P = 2387.2 RVL = 4.8092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6185 -.6354 -.6263 -.6482 -.5522 -.3945  
 .757 -.6073 -.6354 -.6558 -.6675 .0507 -.3820  
 .805 -.6034 -.6356 -.7003 -.6595 -.5532 -.3820  
 .887 -.6073 -.7007 -.7509 -.6487 -.5064 -.3665  
 .968 -.6453 -.7742 -.7485 -.6304 -.4726 -.3267

ALPHA ( 2 ) = .003 BETA ( 5 ) = 8.269 MACH = .59552 Q = 592.56 P = 2387.2 RVL = 4.8092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703 -.7172 -.7187 -.6996 -.6912 -.5390 -.3303  
 .757 -.6955 -.7320 -.7456 -.7218 -.0147 -.3472  
 .805 -.6880 -.7521 -.7985 -.6985 -.5183 -.3219  
 .887 -.6950 -.8591 -.8428 -.6729 -.4784 -.3151  
 .968 -.7501 -.9315 -.8301 -.6358 -.4374 -.2628

ALPHA ( 3 ) = 3.907 BETA ( 1 ) = -7.936 MACH = .59500 Q = 591.74 P = 2387.9 RVL = 4.8063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7795 -.8030 -.8486 -.8002 -.5549 -.3338  
 .757 -.7553 -.8013 -.8751 -.8206 -.2281 -.3133  
 .805 -.7458 -.8308 -.9148 -.7989 -.5342 -.2955  
 .887 -.7371 -.8913 -.9584 -.7456 -.4820 -.2837  
 .968 -.7795 -.9507 -.9690 -.7072 -.4410 -.2643

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK05)

ALPHA ( 3 ) = 3.912 BETA ( 2 ) = -3.897 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6368 -.6560 -.6734 -.6688 -.5168 -.3337  
 .757 -.6193 -.6582 -.6976 -.6811 -.3085 -.3322  
 .805 -.6239 -.6659 -.7365 -.6572 -.5229 -.3266  
 .857 -.6179 -.7247 -.7843 -.6599 -.4810 -.3026  
 .908 -.6635 -.8240 -.7935 -.6323 -.4646 -.2942

ALPHA ( 3 ) = 3.909 BETA ( 3 ) = .143 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6052 -.6101 -.6271 -.6705 -.5656 -.4065  
 .757 -.5897 -.6210 -.6560 -.6847 -.3954 -.4012  
 .805 -.5883 -.6290 -.6975 -.6700 -.5572 -.3809  
 .857 -.5321 -.7037 -.7452 -.6676 -.5261 -.3873  
 .908 -.6251 -.7687 -.7633 -.6546 -.4966 -.3517

ALPHA ( 3 ) = 3.918 BETA ( 4 ) = 4.207 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6249 -.6460 -.6490 -.6534 -.5077 -.3421  
 .757 -.6121 -.6555 -.6799 -.6676 -.5020 -.3233  
 .805 -.6196 -.6775 -.7358 -.6488 -.4976 -.3110  
 .857 -.6285 -.7561 -.7591 -.6435 -.4581 -.2971  
 .908 -.6583 -.8375 -.7734 -.6078 -.4277 -.2626

ALPHA ( 3 ) = 3.922 BETA ( 5 ) = 8.252 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7302 -.7425 -.7484 -.7155 -.5351 -.3203  
 .757 -.7165 -.7559 -.7805 -.7273 -.5784 -.3116  
 .805 -.7158 -.7860 -.8444 -.7157 -.5075 -.2993  
 .857 -.7336 -.8681 -.8879 -.6860 -.4691 -.2720  
 .908 -.7626 -.9273 -.8674 -.6189 -.4151 -.2468

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK05)

ALPHA ( 4 ) = 7.956 BETA ( 1 ) = -7.918 MACH = .59428 Q = 590.57 P = 2388.9 RV/L = 4.8012

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7353	-.7577	-.7832	-.6937	-.4820	-.2530
.757	-.7111	-.7780	-.9078	-.7207	-1.0433	-.2627
.805	-.7012	-.7877	-.8570	-.6818	-.4495	-.2574
.887	-.6917	-.8670	-.8761	-.6411	-.3850	-.2484
.969	-.7339	-.9221	-.8797	-.6087	-.3773	-.2554

ALPHA ( 4 ) = 7.965 BETA ( 2 ) = -3.894 MACH = .59428 Q = 590.57 P = 2388.9 RV/L = 4.8012

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6532	-.6627	-.6629	-.6767	-.5089	-.3047
.757	-.6437	-.6705	-.7130	-.6898	-1.1820	-.2955
.805	-.6265	-.6960	-.7447	-.6542	-.5173	-.3083
.887	-.6214	-.7565	-.8032	-.6598	-.4631	-.3113
.969	-.6705	-.8514	-.8006	-.6329	-.4450	-.3008

ALPHA ( 4 ) = 7.970 BETA ( 3 ) = .145 MACH = .59428 Q = 590.57 P = 2388.9 RV/L = 4.8012

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6218	-.6358	-.6299	-.6804	-.5708	-.4027
.757	-.6034	-.6324	-.6785	-.6931	-1.2788	-.3943
.805	-.5845	-.6406	-.7045	-.6860	-.5665	-.3769
.887	-.6009	-.7212	-.7729	-.6870	-.5297	-.3793
.969	-.6348	-.7938	-.7802	-.6491	-.5075	-.3402

ALPHA ( 4 ) = 7.969 BETA ( 4 ) = 4.201 MACH = .59428 Q = 590.57 P = 2388.9 RV/L = 4.8012

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6584	-.6676	-.6569	-.6757	-.5168	-.3289
.757	-.6370	-.6647	-.7014	-.6910	-1.4011	-.3209
.805	-.6397	-.6551	-.7490	-.6707	-.5064	-.3023
.887	-.6475	-.7757	-.8010	-.6465	-.4660	-.2995
.969	-.6355	-.6568	-.8042	-.6117	-.4281	-.2590

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK05)

ALPHA ( 4 ) = 7.967 BETA ( 5 ) = 8.254 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7309 -.7338 -.7357 -.6830 -.4885 -.3033  
 .757 -.7057 -.7380 -.7650 -.6922 -1.4968 -.2899  
 .805 -.6960 -.7741 -.8124 -.6684 -.4572 -.2804  
 .867 -.7375 -.8760 -.8593 -.6286 -.4052 -.2761  
 .968 -.7816 -.9238 -.8180 -.5808 -.3698 -.2583

ALPHA ( 5 ) = 12.022 BETA ( 1 ) = -7.881 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7425 -.7433 -.7468 -.6889 -.4820 -.2953  
 .757 -.7098 -.7479 -.7690 -.6922 -2.2094 -.2856  
 .805 -.6933 -.7702 -.8051 -.6630 -.4818 -.2945  
 .867 -.6981 -.8310 -.8298 -.6662 -.4384 -.2816  
 .968 -.7453 -.8827 -.8452 -.6442 -.4490 -.2914

ALPHA ( 5 ) = 12.022 BETA ( 2 ) = -3.874 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6738 -.6835 -.6728 -.6777 -.5123 -.3147  
 .757 -.6614 -.6823 -.7134 -.6984 .0000 -.3091  
 .805 -.6549 -.7124 -.7554 -.7342 -.5242 -.3173  
 .867 -.6566 -.7548 -.8039 -.6702 -.4658 -.2832  
 .968 -.6784 -.8319 -.8264 -.6415 -.4291 -.2716

ALPHA ( 5 ) = 12.022 BETA ( 3 ) = .150 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6426 -.6559 -.6508 -.6959 -.5785 -.4070  
 .757 -.6351 -.6513 -.7033 -.7243 .0000 -.3938  
 .805 -.6293 -.6755 -.7274 -.6829 -.5754 -.3798  
 .867 -.6230 -.7274 -.7927 -.6852 -.5313 -.3592  
 .968 -.6475 -.8215 -.8131 -.6555 -.4954 -.3340

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(XES6405)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 5 ) = 12.028 BETA ( 4 ) = 4.211 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5753	-.6691	-.6637	-.6874	-.5360	-.3501
.757	-.6418	-.6950	-.6963	-.6958	.0000	-.3164
.805	-.6418	-.7067	-.7347	-.6634	-.5183	-.3220
.897	-.6512	-.7838	-.9037	-.6602	-.4736	-.3058
.953	-.6937	-.8826	-.8018	-.6312	-.4447	-.2779

ALPHA ( 5 ) = 12.020 BETA ( 5 ) = 8.278 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7276	-.7371	-.7370	-.6831	-.5062	-.3319
.757	-.7022	-.7518	-.7638	-.7079	.0000	-.3167
.805	-.7008	-.7746	-.8141	-.6771	-.4816	-.3030
.897	-.7407	-.8513	-.8483	-.6422	-.4349	-.2980
.953	-.7908	-.9219	-.8160	-.5960	-.3976	-.2756



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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK06) ( 13 AUG 75 )

# REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -7.883 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6355 -.6572 -.6865 -.6983 -.5548 -.3947  
 .757 -.6261 -.6727 -.7492 -.6992 .5070 -.3974  
 .805 -.6107 -.7098 -.7490 .6911 .5644 -.3801  
 .897 -.6329 -.7515 -.7973 -.6937 .5351 -.3852  
 .968 -.6576 -.8265 -.7947 -.6923 .5425 .3881

ALPHA ( 1 ) = -4.010 BETA ( 2 ) = -3.877 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5347 -.5506 -.6040 -.6300 -.5271 -.3975  
 .757 -.5325 -.5608 -.6437 -.6387 .4363 -.3890  
 .805 .5427 .5970 .6589 .6216 .5341 -.3898  
 .887 .5422 .6467 .6848 .6274 .5028 -.3787  
 .968 .5849 .5800 .7060 .6115 .4874 -.3473

ALPHA ( 1 ) = -3.994 BETA ( 3 ) = .154 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5224 .5453 .5910 .6271 .5280 .3849  
 .757 .5277 .5504 .6237 .6247 .3925 .3853  
 .805 .5224 .5935 .6574 .6131 .5333 .3810  
 .887 .5342 .6365 .6727 .6218 .4952 .3700  
 .968 .5852 .6971 .6980 .6071 .4709 .3470

# PARAMETRIC DATA

RUDDER = .000 SPDRK = 55.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

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(XEBK05)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 1 ) = -4.001 BETA ( 4 ) = 4.235 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5351 -.5530 -.5930 -.6268 -.5227 -.3891  
 .757 -.5402 -.5645 -.6431 -.6348 -.3224 -.3843  
 .805 -.5383 -.5975 -.6547 -.6187 -.5261 -.3812  
 .887 -.5522 -.6546 -.6856 -.6187 -.4923 -.3726  
 .968 -.6078 -.7052 -.6892 -.5961 -.4728 -.3545

ALPHA ( 1 ) = -4.013 BETA ( 5 ) = 8.308 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5202 -.6232 -.6599 -.6674 -.5307 -.3861  
 .757 -.6150 -.6403 -.7027 -.6772 -.2336 -.3743  
 .805 -.6118 -.6761 -.7560 -.6638 -.5276 -.3714  
 .887 -.6384 -.7448 -.7738 -.6474 -.4942 -.3657  
 .968 -.6856 -.7892 -.7829 -.6234 -.4639 -.3408

ALPHA ( 2 ) = .023 BETA ( 1 ) = -7.929 MACH = .59530 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7317 -.7596 -.8439 -.8016 -.5640 -.3453  
 .757 -.7199 -.7675 -.9058 -.7983 -.2722 -.3367  
 .805 -.7134 -.7943 -.9363 -.7774 -.5422 -.3360  
 .887 -.7139 -.8633 -.9505 -.7560 -.4829 -.3175  
 .968 -.7673 -.9501 -.9682 -.7076 -.4658 -.3023

ALPHA ( 2 ) = .003 BETA ( 2 ) = -3.895 MACH = .59530 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5741 -.5895 -.6453 -.6623 -.5390 -.3787  
 .757 -.5790 -.6067 -.6934 -.6705 -.1763 -.3801  
 .805 -.5773 -.6373 -.7018 -.6578 -.5385 -.3760  
 .887 -.5882 -.6914 -.7417 -.6551 -.5010 -.3718  
 .968 -.6183 -.7412 -.7423 -.6405 -.4873 -.3341

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .035 BETA ( 3 ) = .147 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179  
 (XEBK06)

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5421 -.5706 -.6204 -.6533 -.5497 -.3795  
 .757 -.5552 -.5723 -.6603 -.6631 -.1276 -.3899  
 .805 -.5506 -.5681 -.7042 -.6410 -.5334 -.3675  
 .857 -.5517 -.5624 -.7187 -.6490 -.4966 -.3634  
 .908 -.5124 -.7330 -.7336 -.6261 -.4850 -.3306

ALPHA ( 2 ) = .050 BETA ( 4 ) = 4.214 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5705 -.5012 -.6379 -.6701 -.5311 -.3779  
 .757 -.5736 -.6109 -.7036 -.6793 -.0120 -.3777  
 .805 -.5340 -.6462 -.7142 -.6547 -.5384 -.3690  
 .857 -.5554 -.7051 -.7452 -.6518 -.4926 -.3457  
 .908 -.5542 -.7575 -.7641 -.5306 -.4620 -.3242

ALPHA ( 2 ) = .045 BETA ( 5 ) = 8.269 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6607 -.6825 -.7368 -.7176 -.5305 -.3268  
 .757 -.6583 -.7163 -.8126 -.7253 -.0481 -.3232  
 .805 -.6519 -.7546 -.8251 -.7003 -.5163 -.3155  
 .857 -.6980 -.8999 -.8503 -.6685 -.4540 -.3082  
 .908 -.7389 -.9323 -.8448 -.6317 -.4211 -.2712

ALPHA ( 3 ) = 3.911 BETA ( 1 ) = -7.932 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7401 -.7773 -.8654 -.8166 -.5723 -.3255  
 .757 -.7459 -.7922 -.9282 -.8337 -.2406 -.3272  
 .805 -.7242 -.8342 -.9349 -.7964 -.5537 -.3072  
 .857 -.7336 -.9237 -.9739 -.7594 -.4818 -.2881  
 .908 -.7997 -.9662 -.9211 -.7190 -.4381 -.2719

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK06)

ALPHA ( 3 ) = 3.915 BETA ( 2 ) = -3.897 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5869 -.6171 -.6745 -.6624 -.5021 -.3284  
 .757 -.5852 -.6172 -.7215 -.6767 -.3385 -.3303  
 .805 -.5901 -.6634 -.7391 -.6497 -.5152 -.3484  
 .887 -.5917 -.7187 -.7596 -.6523 -.4677 -.3332  
 .958 -.6484 -.7788 -.7588 -.6270 -.4607 -.3079

ALPHA ( 3 ) = 3.912 BETA ( 3 ) = .150 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.5469 -.5763 -.6233 -.6671 -.5529 -.3908  
 .757 -.5526 -.5927 -.6565 -.6796 -.3937 -.3877  
 .805 -.5594 -.6188 -.6971 -.6565 -.5476 -.3833  
 .887 -.5601 -.6841 -.7344 -.6469 -.5055 -.3668  
 .958 -.6260 -.7404 -.7568 -.6289 -.4901 -.3426

ALPHA ( 3 ) = 3.921 BETA ( 4 ) = 4.204 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5809 -.6210 -.6786 -.6526 -.5007 -.3161  
 .757 -.5842 -.6297 -.7123 -.6651 -.5419 -.3166  
 .805 -.5834 -.6720 -.7491 -.6598 -.4256 -.3055  
 .887 -.6111 -.7561 -.7787 -.6391 -.4489 -.2931  
 .958 -.6850 -.8114 -.7533 -.6008 -.4177 -.2686

ALPHA ( 3 ) = 3.925 BETA ( 5 ) = 8.248 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.6960 -.7214 -.8071 -.7482 -.5306 -.3122  
 .757 -.6925 -.7537 -.8757 -.7521 -.6194 -.2994  
 .805 -.6914 -.8297 -.9228 -.7269 -.4871 -.2951  
 .887 -.7420 -.9384 -.8993 -.6906 -.4625 -.2843  
 .958 -.6263 -.9201 -.8531 -.4529 -.4184 -.2483

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## TABULATED PRESSURE DATA - OA148 ( AXES 11-073-1 )

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ALPHA ( 4 ) = 7.957 BETA ( 1 ) = -7.908 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178  
 (XEBK05)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6944 -.7448 -.8009 -.7416 -.4872 -.2691  
 .757 -.6942 -.7448 -.8616 -.7231 -1.0738 -.2765  
 .805 -.6314 -.8017 -.8775 -.6982 -.4498 -.2631  
 .857 -.6845 -.8749 -.8919 -.6944 -.4128 -.2646  
 .908 -.7812 -.9155 -.9019 -.5546 -.4109 -.2492

ALPHA ( 4 ) = 7.955 BETA ( 2 ) = -3.891 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5959 -.6147 -.6696 -.6712 -.5053 -.3373  
 .757 -.5361 -.6349 -.7201 -.6797 -1.2240 -.3354  
 .805 -.5351 -.6570 -.7350 -.6595 -.5107 -.3084  
 .857 -.5997 -.7514 -.7707 -.6440 -.4587 -.3187  
 .908 -.6504 -.7995 -.7731 -.6204 -.4572 -.2997

ALPHA ( 4 ) = 7.972 BETA ( 3 ) = .143 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5439 -.5732 -.6409 -.5710 -.5568 -.3911  
 .757 -.5674 -.5022 -.6659 -.6773 -1.2921 -.3877  
 .805 -.5599 -.5355 -.6295 -.6684 -.5520 -.3739  
 .857 -.5549 -.6941 -.7308 -.6580 -.5163 -.3649  
 .908 -.6320 -.7467 -.7455 -.6365 -.4930 -.3454

ALPHA ( 4 ) = 7.971 BETA ( 4 ) = 4.201 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5857 -.6019 -.6720 -.6532 -.5040 -.3122  
 .757 -.5847 -.6336 -.7121 -.6660 -1.4354 -.3194  
 .805 -.5991 -.6721 -.7499 -.6564 -.4989 -.2927  
 .857 -.6130 -.7434 -.7722 -.6477 -.4517 -.3111  
 .908 -.6772 -.8263 -.7642 -.6018 -.4275 -.2701

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = 7.969 BETA ( 5 ) = 8.255 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.9178

(XEBK06)

SECTION ( UPRIGHT HAWD INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6616	-.6871	-.7708	-.6948	-.4673	-.2739
.757	-.6577	-.7122	-.8292	-.6934	-.4967	-.2795
.805	-.6507	-.8020	-.8523	-.6742	-.4588	-.2888
.887	-.7089	-.9158	-.8660	-.6422	-.4143	-.2752
.959	-.8211	-.9865	-.8357	-.5790	-.3852	-.2674

ALPHA ( 5 ) = 12.009 BETA ( 1 ) = -7.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION ( UPRIGHT HAWD INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.5776	-.7067	-.7790	-.7206	-.5001	-.2975
.757	-.6730	-.7345	-.8125	-.7184	-.2345	-.2984
.805	-.6505	-.7650	-.8405	-.6858	-.4854	-.2859
.887	-.6594	-.8293	-.8508	-.6892	-.4480	-.2744
.959	-.7182	-.8749	-.8407	-.6859	-.4504	-.2778

ALPHA ( 5 ) = 12.030 BETA ( 2 ) = -3.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION ( UPRIGHT HAWD INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5981	-.6185	-.6714	-.6733	-.5235	-.3324
.757	-.5949	-.6209	-.7081	-.6680	-.0000	-.3348
.805	-.5573	-.6541	-.7437	-.6645	-.4961	-.3163
.887	-.5995	-.7305	-.7479	-.6531	-.4632	-.3057
.959	-.6412	-.7709	-.7752	-.6324	-.4485	-.3136

ALPHA ( 5 ) = 12.036 BETA ( 3 ) = .140 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION ( UPRIGHT HAWD INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5771	-.6172	-.6402	-.6654	-.5599	-.3967
.757	-.5805	-.6324	-.6959	-.6853	-.0000	-.3952
.805	-.5749	-.6556	-.7345	-.6707	-.5506	-.3722
.887	-.5687	-.6935	-.7512	-.6685	-.5134	-.3589
.959	-.5376	-.7825	-.7613	-.6563	-.4897	-.3420

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -14QA/B/C/R ORB SPEED BRAKE

(XEBK06)

ALPHA ( 5 ) = 11.0+3 BETA ( 4 ) = 4.211 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.5953	-.6101	-.6720	-.6689	-.5298	-.3290
.757	-.5634	-.6323	-.7265	-.6974	.0000	-.3305
.805	-.5992	-.6632	-.7645	-.6732	-.5176	-.3113
.857	-.6032	-.7742	-.7853	-.6482	-.4657	-.3232
.909	-.6941	-.8034	-.7793	-.6288	-.4441	-.3056

ALPHA ( 5 ) = 12.026 BETA ( 5 ) = 8.275 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8563

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.6655	-.6994	-.7718	-.7152	-.5012	-.3060
.757	-.6739	-.7255	-.8272	-.7166	.0000	-.3045
.805	-.6779	-.7232	-.8493	-.6935	-.4792	-.2955
.857	-.7281	-.9214	-.8689	-.6394	-.4293	-.2946
.909	-.8130	-.9412	-.9370	-.5943	-.4059	-.2794

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R OR8 SPEED BRAKE

(XEBK07) ( 13 AUG 75 )

# REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000  
BOFLAP = 22.500 L-ELVN = .004  
R-ELVN = .000 MACH = .943

ALPHA ( 1 ) = -4.068 BETA ( 1 ) = -3.876 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .7920

X/CV  
.708 -.4617 -.4871 -.5012 -.5391  
.757 -.4610 -.4825 -.5155 -.5491  
.805 -.4662 -.4957 -.5368 -.5647  
.887 -.4720 -.5369 -.5692 -.5627  
.968 -.4940 -.5664 -.5890 -.4216  
ALPHA ( 1 ) = -4.048 BETA ( 2 ) = .89933 CH = .7920

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .7920

X/CV  
.708 -.4292 -.4428 -.4674 -.5102  
.757 -.4283 -.4390 -.4776 -.5043  
.805 -.4347 -.4529 -.4905 -.5129  
.887 -.4395 -.4893 -.5250 -.5164  
.968 -.4572 -.5080 -.5391 -.4643  
ALPHA ( 1 ) = -4.057 BETA ( 3 ) = 4.237 MACH = .89933

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.4721 -.4721 -.4924 -.5417  
.757 -.4697 -.4779 -.5250 -.5620  
.805 -.4747 -.4744 -.5517 -.5617  
.887 -.4841 -.5372 -.5746 -.5565  
.968 -.5116 -.5686 -.5947 -.5615  
ALPHA ( 1 ) = -4.057 BETA ( 3 ) = 4.237 MACH = .89933

P = 1059.5 RN/L = 3.5834



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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE (XEBK07)

ALPHA ( 2 ) = .010 BETA ( 1 ) = -3.903 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4837 -.4954 -.5174 -.5749 -.5592 -.4349  
 .757 -.4868 -.4951 -.5440 -.5818 -.2464 -.4323  
 .805 -.4796 -.5214 -.5540 -.5918 -.5381 -.4351  
 .897 -.4889 -.5600 -.5982 -.5844 -.5190 -.4293  
 .969 -.5154 -.5895 -.6205 -.5856 -.5050 -.4247

ALPHA ( 2 ) = .014 BETA ( 2 ) = .148 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4381 -.4527 -.4773 -.5234 -.5175 -.4267  
 .757 -.4481 -.4510 -.4949 -.5239 -.1666 -.4174  
 .805 -.4486 -.4753 -.5234 -.5334 -.5123 -.4295  
 .897 -.4620 -.5046 -.5408 -.5439 -.4954 -.4187  
 .968 -.4827 -.5325 -.5691 -.5389 -.4937 -.4051

ALPHA ( 2 ) = .013 BETA ( 3 ) = 4.211 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4839 -.4923 -.5309 -.5852 -.5404 -.4369  
 .757 -.4933 -.4995 -.5528 -.5904 -.1005 -.4381  
 .805 -.4930 -.5193 -.5695 -.5952 -.5476 -.4270  
 .897 -.4959 -.5617 -.6052 -.5899 -.5186 -.4254  
 .963 -.5279 -.5941 -.6289 -.5918 -.5088 -.4054

ALPHA ( 3 ) = 3.998 BETA ( 1 ) = -3.905 MACH = .90070 Q = 600.62 P = 1058.0 RN/L = 3.5882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4962 -.5189 -.5437 -.6075 -.5616 -.4370  
 .757 -.4984 -.5206 -.5680 -.6066 -.1104 -.4318  
 .805 -.4396 -.5405 -.5990 -.6149 -.5499 -.4275  
 .897 -.5099 -.5758 -.6306 -.6092 -.5266 -.4102  
 .969 -.5316 -.6253 -.6534 -.6094 -.5190 -.4047

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK07)

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = .135 MACH = .9070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4449	-.4625	-.4710	-.5304	-.5190	-.4245
.757	-.4494	-.4589	-.4929	-.5361	-.2053	-.4259
.805	-.4515	-.4792	-.5243	-.5523	-.5114	-.4223
.887	-.4673	-.5077	-.5504	-.5471	-.4998	-.4148
.968	-.4849	-.5427	-.5782	-.5468	-.4884	-.4069

ALPHA ( 3 ) = 3.920 BETA ( 3 ) = 4.206 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4880	-.5067	-.5482	-.5997	-.5463	-.4315
.757	-.4928	-.5165	-.5728	-.6078	-.3253	-.4262
.805	-.5012	-.5465	-.6021	-.6025	-.5575	-.4305
.887	-.5295	-.5849	-.6330	-.6116	-.5196	-.4250
.968	-.5514	-.6342	-.6512	-.6085	-.5087	-.4025

ALPHA ( 4 ) = 7.946 BETA ( 1 ) = -3.900 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5260	-.5432	-.5703	-.6348	-.5882	-.4445
.757	-.5252	-.5439	-.5980	-.6381	-.5076	-.4336
.805	-.5353	-.5523	-.6310	-.6405	-.5770	-.4398
.887	-.5346	-.5926	-.6577	-.6465	-.5508	-.4191
.968	-.5542	-.6425	-.7004	-.6172	-.5369	-.4009

ALPHA ( 4 ) = 7.956 BETA ( 2 ) = .143 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4565	-.4635	-.5037	-.5543	-.5355	-.4166
.757	-.4613	-.4742	-.5087	-.5639	-.6312	-.4256
.805	-.4673	-.4997	-.5455	-.5751	-.5219	-.4292
.887	-.4769	-.5157	-.5746	-.5777	-.5085	-.4253
.968	-.4987	-.5633	-.5976	-.5727	-.4913	-.4050

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.955 BETA ( 3 ) = 4.206 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837  
 (XE8X07)

SECTION ( 1 ) : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5159 -.5327 -.5731 -.6400 -.5791 -.4454  
 .757 -.5222 -.5404 -.6068 -.6415 -.7862 -.4394  
 .805 -.5253 -.5711 -.6262 -.6520 -.5693 -.4375  
 .837 -.5344 -.6207 -.6714 -.6501 -.5429 -.4532  
 .958 -.5694 -.6572 -.6855 -.6424 -.5274 -.4332

ALPHA ( 5 ) = 11.987 BETA ( 1 ) = -3.885 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION ( 1 ) : RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5484 -.5694 -.5930 -.6550 -.5916 -.4472  
 .757 -.5556 -.5723 -.6250 -.6550 -.9423 -.4508  
 .805 -.5477 -.5895 -.6485 -.6674 -.5761 -.4460  
 .837 -.5513 -.6305 -.6941 -.6598 -.5437 -.4335  
 .958 -.5902 -.6737 -.7129 -.6498 -.5404 -.4042

ALPHA ( 5 ) = 11.997 BETA ( 2 ) = .148 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION ( 1 ) : RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5113 -.5252 -.5602 -.6145 -.5695 -.4494  
 .757 -.5139 -.5269 -.5947 -.6162 -1.0828 -.4484  
 .805 -.5194 -.5498 -.6095 -.6305 -.5595 -.4417  
 .837 -.5197 -.5922 -.6474 -.6250 -.5340 -.4342  
 .958 -.5472 -.6354 -.6695 -.6267 -.5170 -.4184

ALPHA ( 5 ) = 11.987 BETA ( 3 ) = 4.223 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION ( 1 ) : RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5462 -.5822 -.6101 -.6617 -.5905 -.4565  
 .757 -.5647 -.5803 -.6405 -.6659 -.9723 -.4577  
 .805 -.5528 -.6042 -.6667 -.6789 -.5853 -.4453  
 .837 -.5697 -.5503 -.7019 -.6770 -.5528 -.4360  
 .958 -.6174 -.7064 -.7252 -.6517 -.5468 -.4190

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK08) ( 13 AUG 75 )

## REFERENCE DATA

SECF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.6590 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 85.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -4.017 BETA ( 1 ) = -3.884 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.6313 -.6212 -.6278 -.6273 -.6223 -.6113  
 .757 -.6148 -.6217 -.6295 -.6275 .0000 -.6108  
 .805 -.6172 -.6235 -.6302 -.6280 -.6166 -.6104  
 .857 -.6169 -.6215 -.6321 -.6249 -.6149 -.6141  
 .908 -.6179 -.6345 -.6311 -.6313 -.6108 -.6086

ALPHA ( 2 ) = -3.966 BETA ( 2 ) = .155 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.6471 -.6291 -.6350 -.6478 -.6373 -.6164  
 .757 -.6263 -.6291 -.6395 -.6509 .0000 -.6175  
 .805 -.6263 -.6313 -.6412 -.6526 -.6338 -.6192  
 .857 -.6275 -.6401 -.6443 -.6462 -.6345 -.6202  
 .908 -.6277 -.6443 -.6454 -.6462 -.6328 -.6365

ALPHA ( 3 ) = -4.012 BETA ( 3 ) = 4.241 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9166

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.6409 -.6217 -.6285 -.6330 -.6323 -.6199  
 .757 -.6169 -.6212 -.6306 -.6330 .0000 -.6218  
 .805 -.6188 -.6220 -.6316 -.6337 -.6287 -.6234  
 .857 -.6205 -.6343 -.6325 -.6335 -.6280 -.6278  
 .908 -.6220 -.6374 -.6335 -.6325 -.6217 -.6115

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XESK08)

ALPHA ( 2 ) = -.007 BETA ( 1 ) = 3.899 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6380	-.6250	-.6325	-.6444	-.6351	-.6155
.757	-.6208	-.6250	-.6353	-.6480	.0000	-.6151
.805	-.6210	-.6248	-.6384	-.6465	-.6289	-.6153
.897	-.6215	-.6326	-.6406	-.6379	-.6253	-.6139
.959	-.6222	-.6354	-.6408	-.6379	-.6258	-.6098

ALPHA ( 2 ) = -.001 BETA ( 2 ) = .155 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6521	-.6334	-.6398	-.6491	-.6439	-.6241
.757	-.6315	-.6339	-.6437	-.6520	.0000	-.6248
.805	-.6317	-.6339	-.6460	-.6539	-.6379	-.6265
.897	-.6322	-.6439	-.6477	-.6480	-.6367	-.6263
.959	-.6332	-.6461	-.6480	-.6472	-.6348	-.6164

ALPHA ( 2 ) = -.006 BETA ( 3 ) = 4.218 MACH = 1.3961 Q = 598.93 P = 439.00 RN/L = 2.9179

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6517	-.6319	-.6390	-.6491	-.6395	-.6259
.757	-.6307	-.6333	-.6440	-.6493	.0000	-.6278
.805	-.6295	-.6345	-.6467	-.6507	-.6386	-.6295
.897	-.6314	-.6475	-.6495	-.6486	-.6376	-.6297
.959	-.6333	-.6525	-.6488	-.6455	-.6314	-.6062

ALPHA ( 3 ) = 3.849 BETA ( 1 ) = -3.939 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6439	-.6308	-.6370	-.6436	-.6382	-.6229
.757	-.6274	-.6315	-.6394	-.6458	.0000	-.6238
.805	-.6252	-.6315	-.6410	-.6484	-.6312	-.6241
.897	-.6276	-.6403	-.6434	-.6417	-.6298	-.6225
.959	-.6284	-.6431	-.6432	-.6409	-.6279	-.6156

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK08)

ALPHA ( 3 ) = 3.967 BETA ( 2 ) = .154 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6531	-.6353	-.6411	-.6492	-.6463	-.6287
.757	-.6342	-.6356	-.6494	-.6511	.0000	-.6291
.805	-.6339	-.6356	-.6470	-.6532	-.6403	-.6301
.887	-.6346	-.6465	-.6482	-.6480	-.6394	-.6321
.958	-.6349	-.6505	-.6482	-.6473	-.6382	-.6246

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = .4208 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6523	-.6316	-.6381	-.6548	-.6445	-.6238
.757	-.6316	-.6339	-.6450	-.6586	.0000	-.6252
.805	-.6319	-.6333	-.6474	-.6595	-.6405	-.6259
.887	-.6314	-.6454	-.6512	-.6524	-.6402	-.6265
.958	-.6321	-.6526	-.6545	-.6514	-.6369	-.6078

ALPHA ( 4 ) = .868 BETA ( 1 ) = -.3901 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .920

X/CV

.708	-.6491	-.6345	-.6395	-.6517	-.6469	-.6290
.757	-.6304	-.6336	-.6443	-.6538	.0000	-.6283
.805	-.6309	-.6336	-.6464	-.6583	-.6412	-.6283
.887	-.6315	-.6487	-.6479	-.6514	-.6417	-.6329
.958	-.6312	-.6529	-.6488	-.6519	-.6405	-.6226

ALPHA ( 4 ) = 7.941 BETA ( 2 ) = .144 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6443	-.6276	-.6338	-.6435	-.6416	-.6214
.757	-.6264	-.6265	-.6378	-.6450	.0000	-.6211
.805	-.6259	-.6256	-.6398	-.6488	-.6350	-.6223
.887	-.6266	-.6418	-.6407	-.6426	-.6354	-.6272
.958	-.6262	-.6449	-.6419	-.6431	-.6352	-.6185

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ALPHA ( 4 ) = 7.942 BETA ( 3 ) = 4.207 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176  
 (XEBK08)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6518 -.6341 -.6407 -.6514 -.6454 -.6263  
 .757 -.6324 -.6341 -.6447 -.6535 .0000 -.6263  
 .805 -.6341 -.6345 -.6461 -.6566 -.6409 -.6275  
 .887 -.6324 -.6456 -.6478 -.6507 -.6404 -.6273  
 .958 -.6338 -.6492 -.6488 -.6504 -.6402 -.6199

ALPHA ( 5 ) = 11.890 BETA ( 1 ) = -3.888 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6424 -.6290 -.6338 -.6481 -.6419 -.6224  
 .757 -.6264 -.6286 -.6372 -.6505 .0000 -.6226  
 .805 -.6262 -.6276 -.6407 -.6541 -.6353 -.6231  
 .887 -.6257 -.6394 -.6453 -.6462 -.6348 -.6258  
 .958 -.6254 -.6454 -.6484 -.6460 -.6305 -.6117

ALPHA ( 5 ) = 11.897 BETA ( 2 ) = .146 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6524 -.6356 -.6393 -.6493 -.6469 -.6284  
 .757 -.6352 -.6371 -.6424 -.6498 .0000 -.6300  
 .805 -.6356 -.6392 -.6450 -.6529 -.6415 -.6310  
 .887 -.6347 -.6439 -.6455 -.6479 -.6417 -.6319  
 .958 -.6354 -.6482 -.6472 -.6481 -.6415 -.6242

ALPHA ( 5 ) = 11.893 BETA ( 3 ) = 4.224 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6403 -.6281 -.6318 -.6439 -.6363 -.6191  
 .757 -.6279 -.6274 -.6353 -.6437 .0000 -.6181  
 .805 -.6260 -.6291 -.6358 -.6463 -.6315 -.6181  
 .887 -.6260 -.6359 -.6394 -.6423 -.6306 -.6198  
 .958 -.6262 -.6397 -.6408 -.6425 -.6303 -.6126

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK08)

ALPHA ( 6 ) = 15.905 BETA ( 1 ) = -3.863 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6308 -.6198 -.6258 -.6349 -.6296 -.6105  
 .757 -.6171 -.6195 -.6292 -.6354 .0000 -.6105  
 .805 -.6167 -.6200 -.6316 -.6382 -.6230 -.6105  
 .887 -.6175 -.6345 -.6335 -.6320 -.6218 -.6137  
 .958 -.6186 -.6394 -.6358 -.6304 -.6165 -.6079

ALPHA ( 6 ) = 15.918 BETA ( 2 ) = .144 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6489 -.6391 -.6385 -.6490 -.6456 -.6313  
 .757 -.6379 -.6384 -.6394 -.6497 .0000 -.6313  
 .805 -.6355 -.6374 -.6432 -.6530 -.6416 -.6299  
 .887 -.6374 -.6469 -.6468 -.6487 -.6428 -.6325  
 .958 -.6365 -.6497 -.6475 -.6482 -.6418 -.6236

ALPHA ( 6 ) = 15.908 BETA ( 3 ) = 4.250 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6207 -.6173 -.6205 -.6360 -.6157 -.5931  
 .757 -.6125 -.6176 -.6241 -.6329 .0000 -.5928  
 .805 -.6118 -.6180 -.6277 -.6288 -.6150 -.5957  
 .887 -.6137 -.6274 -.6303 -.6272 -.6162 -.6025  
 .958 -.6137 -.6293 -.6312 -.6274 -.6150 -.6013



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE (XEBK09, 13 AUG 75 )

## REFERENCE DATA

GREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 174.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 935.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.882 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276  
 ALPHA ( 2 ) = -4.017 BETA ( 2 ) = .155 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7357 -.7257 -.7330 -.7450 -.7335 -.7068  
 .757 -.7233 -.7259 -.7354 -.7430 .0000 -.7068  
 .805 -.7216 -.7305 -.7404 -.7407 -.7278 -.7005  
 .857 -.7233 -.7403 -.7440 -.7421 -.7295 -.7132  
 .909 -.7255 -.7441 -.7464 -.7447 -.7292 -.7039

ALPHA ( 1 ) = -4.017 BETA ( 2 ) = .155 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276  
 ALPHA ( 2 ) = -4.017 BETA ( 2 ) = .155 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7391 -.7266 -.7352 -.7504 -.7349 -.7042  
 .757 -.7197 -.7262 -.7373 -.7450 .0000 -.7059  
 .805 -.7223 -.7285 -.7421 -.7430 -.7297 -.7082  
 .857 -.7240 -.7434 -.7466 -.7414 -.7266 -.7132  
 .909 -.7275 -.7489 -.7466 -.7411 -.7216 -.7003

ALPHA ( 1 ) = -4.025 BETA ( 3 ) = 4.236 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276  
 ALPHA ( 2 ) = -4.025 BETA ( 3 ) = 4.236 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7345 -.7273 -.7333 -.7383 -.7257 -.7152  
 .757 -.7220 -.7278 -.7309 -.7335 .0000 -.7190  
 .805 -.7223 -.7306 -.7326 -.7314 -.7268 -.7223  
 .857 -.7215 -.7350 -.7335 -.7352 -.7235 -.7233  
 .909 -.7254 -.7384 -.7352 -.7314 -.7097 -.7058

## PARAMETRIC DATA

NO/DER = .000 SPOBRK = 85.000  
 BOFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK09)

ALPHA ( 2 ) = .013 BETA ( 1 ) = -3.903 MACH = 1.2463 O = 599.67 P = 551.57 RN/L = 3.0283

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.7362	-.7266	-.7330	-.7459	-.7368	-.7092
.757	-.7239	-.7269	-.7335	-.7440	.0000	-.7073
.805	-.7219	-.7278	-.7404	-.7421	-.7304	-.7097
.857	-.7252	-.7359	-.7416	-.7442	-.7321	-.7123
.909	-.7219	-.7379	-.7430	-.7430	-.7295	-.7010

ALPHA ( 2 ) = .017 BETA ( 2 ) = .152 MACH = 1.2463 O = 599.67 P = 551.57 RN/L = 3.0283

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.7275	-.7172	-.7218	-.7394	-.7256	-.6951
.757	-.7108	-.7146	-.7261	-.7380	.0000	-.6943
.805	-.7096	-.7172	-.7289	-.7313	-.7168	-.6955
.857	-.7117	-.7324	-.7339	-.7323	-.7123	-.7031
.909	-.7182	-.7377	-.7390	-.7311	-.7125	-.6979

ALPHA ( 2 ) = .013 BETA ( 3 ) = 4.217 MACH = 1.2463 O = 599.67 P = 551.57 RN/L = 3.0283

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.7380	-.7289	-.7341	-.7510	-.7331	-.7157
.757	-.7236	-.7306	-.7372	-.7434	.0000	-.7183
.805	-.7255	-.7308	-.7396	-.7424	-.7360	-.7219
.857	-.7272	-.7425	-.7439	-.7443	-.7341	-.7202
.909	-.7289	-.7476	-.7434	-.7427	-.7224	-.6984

ALPHA ( 3 ) = 3.907 BETA ( 1 ) = -3.907 MACH = 1.2463 O = 599.67 P = 551.57 RN/L = 3.0276

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.7106	-.7053	-.7112	-.7288	-.7124	-.6826
.757	-.6935	-.7034	-.7145	-.7264	.0000	-.6857
.805	-.6967	-.7053	-.7176	-.7217	-.7057	-.6914
.857	-.7002	-.7146	-.7231	-.7264	-.7052	-.6894
.909	-.6929	-.7177	-.7286	-.7241	-.6993	-.6698

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.907 BETA ( 2 ) = .148 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0275  
(XEBK09)

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6472 -.6345 -.6422 -.6594 -.6511 -.6157  
.757 -.6339 -.6444 -.6508 -.6575 -.6500 -.6262  
.805 -.6355 -.6456 -.6537 -.6446 -.6286  
.857 -.6281 -.6559 -.6597 -.6580 -.6356 -.6285  
.909 -.6391 -.6521 -.6554 -.6458 -.6315 -.6161

ALPHA ( 3 ) = 3.911 BETA ( 3 ) = 4.207 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7118 -.7057 -.7132 -.7309 -.7065 -.6870  
.757 -.6993 -.7060 -.7159 -.7259 -.7000 -.6829  
.805 -.7000 -.7053 -.7242 -.7230 -.7072 -.6843  
.857 -.6955 -.7176 -.7304 -.7254 -.6991 -.6893  
.909 -.7019 -.7299 -.7371 -.7182 -.6939 -.6758

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.903 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6789 -.6734 -.6813 -.7019 -.6903 -.6546  
.757 -.6672 -.6722 -.6958 -.6987 -.6900 -.6562  
.805 -.6722 -.6700 -.6990 -.6944 -.6951 -.6560  
.857 -.6739 -.6963 -.6961 -.7009 -.6837 -.6605  
.909 -.6727 -.6907 -.7037 -.6994 -.6744 -.6334

ALPHA ( 4 ) = 7.889 BETA ( 2 ) = .143 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5551 -.5642 -.5592 -.5892 -.5783 -.5487  
.757 -.5580 -.5637 -.5756 -.5649 -.5515  
.805 -.5615 -.5695 -.5823 -.5861 -.5723 -.5582  
.857 -.5635 -.5739 -.5838 -.5897 -.5716 -.5560  
.909 -.5693 -.5852 -.5919 -.5954 -.5639 -.5533

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## TABULATED PRESSURE DATA - DAI43 (AMES 11-073-1)

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AMES 11-073(DAI48) - 140A/B/C/R ORB SPEED BRAKE

(XEBK09)

ALPHA ( 5 ) = 7.857 BETA ( 3 ) = 4.203 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6575 -.6534 -.6590 -.6978 -.6684 -.6398  
 .757 -.6591 -.6541 -.6739 -.6980 .0000 -.6396  
 .806 -.6557 -.6553 -.6816 -.7787 -.6689 -.6463  
 .857 -.6556 -.6828 -.6856 -.6577 -.6542  
 .909 -.6538 -.6532 -.6937 -.6954 -.6556 -.6441

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.885 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6330 -.6323 -.6429 -.6711 -.6331 -.6114  
 .757 -.6280 -.6323 -.6453 -.6530 .0000 -.6124  
 .806 -.6297 -.6293 -.6482 -.6546 -.6439 -.6148  
 .857 -.6301 -.6512 -.6577 -.6577 -.6408 -.6212  
 .909 -.6330 -.6571 -.6534 -.6560 -.6327 -.6056

ALPHA ( 5 ) = 11.849 BETA ( 2 ) = .145 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5540 -.5530 -.5625 -.5794 -.5673 -.5351  
 .757 -.5507 -.5533 -.5701 -.5792 .0000 -.5420  
 .806 -.5401 -.5554 -.5687 -.5742 -.5539 -.5444  
 .857 -.5432 -.5546 -.5708 -.5787 -.5589 -.5504  
 .909 -.5523 -.5725 -.5923 -.5768 -.5539 -.5428

ALPHA ( 5 ) = 11.849 BETA ( 3 ) = 4.220 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6238 -.6284 -.6392 -.6647 -.6353 -.6053  
 .757 -.6219 -.6339 -.6425 -.6620 .0000 -.6027  
 .806 -.6212 -.6231 -.6511 -.6532 -.6399 -.6089  
 .857 -.6250 -.6451 -.6566 -.6551 -.6387 -.6228  
 .909 -.6238 -.6535 -.6228 -.6537 -.6320 -.6166

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (YESK10) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2620.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 SREF = 936.0090 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDRK = 85.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -3.893 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.6525 -.6571 -.6607 -.6953 -.6748 -.6207  
 .757 -.6532 -.6585 -.6798 -.6984 .0000 -.6216  
 .805 -.6439 -.6638 -.6788 -.6929 -.6487 -.6291  
 .887 -.6559 -.6766 -.6924 -.6793 -.6494 -.6343  
 .958 -.6626 -.6834 -.6972 -.6788 -.6406 -.6243

ALPHA ( 1 ) = -4.035 BETA ( 2 ) = .155 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.6520 -.6568 -.6653 -.6903 -.6767 -.6333  
 .757 -.6496 -.6580 -.6586 -.6860 .0000 -.6385  
 .805 -.6535 -.6630 -.6750 -.6710 -.6605 -.6476  
 .887 -.6524 -.6710 -.6820 -.6784 -.6595 -.6516  
 .958 -.6630 -.6748 -.6872 -.6722 -.6524 -.6427

ALPHA ( 1 ) = -4.042 BETA ( 3 ) = 4.235 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.6371 -.6431 -.6634 -.6815 -.6569 -.6156  
 .757 -.6386 -.6479 -.6586 -.6772 .0000 -.6301  
 .805 -.6393 -.6458 -.6700 -.6662 -.6502 -.6275  
 .887 -.6455 -.6655 -.6763 -.6724 -.6421 -.6281  
 .958 -.6583 -.6797 -.6849 -.6650 -.6375 -.6262

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/8/C/R ORB SPEED BRAKE

(XE8K10)

ALPHA ( 2 ) = .020 BETA ( 1 ) = -3.899 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6216	-.6278	-.6412	-.6689	-.6519	-.5973
.757	-.6226	-.6278	-.6481	-.6605	.0000	-.6028
.805	-.6235	-.6281	-.6543	-.6534	-.6319	-.6066
.887	-.6302	-.6511	-.6624	-.6577	-.6309	-.6100
.968	-.6324	-.6652	-.6693	-.6526	-.6228	-.6026

ALPHA ( 2 ) = .025 BETA ( 2 ) = .152 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5930	-.5951	-.6069	-.6300	-.6188	-.5738
.757	-.5894	-.5961	-.6116	-.6193	.0000	-.5800
.805	-.5940	-.5985	-.6197	-.6157	-.6078	-.5835
.887	-.5947	-.6183	-.6264	-.6233	-.6047	-.5983
.968	-.5997	-.6314	-.6283	-.6167	-.6016	-.5895

ALPHA ( 2 ) = .023 BETA ( 3 ) = 4.214 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6231	-.6238	-.6392	-.6616	-.6442	-.5969
.757	-.6173	-.6248	-.6439	-.6564	.0000	-.6028
.805	-.6226	-.6327	-.6494	-.6463	-.6344	-.6119
.887	-.6257	-.6359	-.6609	-.6559	-.6320	-.6040
.968	-.6267	-.6519	-.6607	-.6523	-.6200	-.5980

ALPHA ( 3 ) = 3.934 BETA ( 1 ) = -3.903 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6433	-.6502	-.6600	-.6894	-.6755	-.6209
.757	-.6428	-.6507	-.6600	-.6855	.0000	-.6264
.805	-.6454	-.6533	-.6700	-.6729	-.6588	-.6290
.887	-.6492	-.6690	-.6805	-.6848	-.6562	-.6288
.968	-.6555	-.6815	-.6927	-.6801	-.6500	-.6110

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TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.940 BETA ( 2 ) = .149 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905  
 (XEBK10)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5917 -.5896 -.5037 -.6259 -.6099 -.5702  
 .757 -.5844 -.5930 -.5023 -.6207 .0000 -.5721  
 .805 -.5949 -.5928 -.6142 -.6166 -.6051 -.5791  
 .887 -.5987 -.6038 -.6176 -.6238 -.6046 -.5813  
 .968 -.5925 -.6103 -.6247 -.6214 -.5977 -.5755

ALPHA ( 3 ) = 3.944 BETA ( 3 ) = 4.204 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6265 -.6273 -.6386 -.6766 -.6572 -.6008  
 .757 -.6242 -.6309 -.6496 -.6701 .0000 -.6075  
 .805 -.6295 -.6309 -.6558 -.6608 -.6467 -.6139  
 .887 -.6270 -.6496 -.6654 -.6639 -.6407 -.6200  
 .968 -.6318 -.6635 -.6768 -.6661 -.6345 -.6087

ALPHA ( 4 ) = 7.882 BETA ( 1 ) = -3.899 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6491 -.6505 -.6606 -.6931 -.6755 -.6257  
 .757 -.6498 -.6529 -.6654 -.6929 .0000 -.6319  
 .805 -.6520 -.6553 -.6755 -.6812 -.6588 -.6358  
 .887 -.6528 -.6663 -.6841 -.6933 -.6702 -.6389  
 .968 -.6556 -.6753 -.6951 -.6998 -.6602 -.6154

ALPHA ( 4 ) = 7.887 BETA ( 2 ) = .144 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5927 -.5925 -.6030 -.6331 -.6085 -.5720  
 .757 -.5946 -.5928 -.6064 -.6260 .0000 -.5720  
 .805 -.5968 -.5947 -.6162 -.6198 -.6097 -.5796  
 .887 -.5923 -.5938 -.6235 -.6238 -.6092 -.5827  
 .968 -.5947 -.6173 -.6286 -.6262 -.6016 -.5695

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK10)

ALPHA ( 4 ) = 7.989 BETA ( 3 ) = 4.206 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6183 -.6276 -.6345 -.6755 -.6440 -.6006  
 .757 -.6175 -.6266 -.6461 -.6683 .0000 -.6027  
 .805 -.6144 -.6336 -.6550 -.6562 -.6435 -.6147  
 .887 -.6190 -.6557 -.6679 -.6662 -.6430 -.6218  
 .969 -.6204 -.6651 -.6750 -.6690 -.6395 -.6127

ALPHA ( 5 ) = 11.921 BETA ( 1 ) = -3.873 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6508 -.6527 -.6621 -.6986 -.6692 -.6267  
 .757 -.6496 -.6566 -.6666 -.6900 .0000 -.6303  
 .805 -.6520 -.6558 -.6750 -.6759 -.6735 -.6363  
 .887 -.6580 -.6550 -.6903 -.6891 -.6723 -.6286  
 .969 -.6530 -.6791 -.6962 -.6898 -.6637 -.6130

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .146 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6101 -.6134 -.6197 -.6584 -.6333 -.5925  
 .757 -.6094 -.6154 -.6282 -.6512 .0000 -.5937  
 .805 -.6154 -.6182 -.6398 -.6462 -.6336 -.6035  
 .887 -.6120 -.6261 -.6424 -.6512 -.6336 -.6041  
 .969 -.6230 -.6400 -.6529 -.6491 -.6312 -.5846

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.214 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6333 -.6409 -.6493 -.6956 -.6565 -.6092  
 .757 -.6354 -.6431 -.6603 -.6825 .0000 -.6164  
 .805 -.6337 -.6457 -.6629 -.6720 -.6641 -.6302  
 .887 -.6306 -.6592 -.6810 -.6789 -.6584 -.6406  
 .969 -.6352 -.6822 -.6877 -.6775 -.6579 -.6327



REFERENCE DATA  
 SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRP = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300  
 PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = 65.000  
 80F P = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.057 BETA ( 1 ) = -3.873 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4007 -.4177 -.4261 -.4509 -.4180 -.3763  
 .757 -.3383 -.4199 -.4342 -.4562 .0000 -.3820  
 .805 -.4074 -.4235 -.4390 -.4416 -.4176 -.3768  
 .857 -.4146 -.4395 -.4629 -.4481 -.4156 -.3840  
 .908 -.4201 -.4516 -.4614 -.4485 -.4190 -.3821  
 ALPHA ( 2 ) = -4.047 BETA ( 2 ) = .148 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.3849 -.3940 -.4134 -.4435 -.4125 -.3758  
 .757 -.3842 -.4031 -.4242 -.4327 .0000 -.3719  
 .805 -.3873 -.4084 -.4287 -.4232 -.4091 -.3836  
 .857 -.3945 -.4168 -.4347 -.4339 -.4082 -.3931  
 .908 -.4036 -.4288 -.4425 -.4270 -.4029 -.3766  
 ALPHA ( 3 ) = -4.057 BETA ( 3 ) = 4.239 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.3904 -.4031 -.4300 -.4578 -.4173 -.3819  
 .757 -.3959 -.4135 -.4376 -.4519 .0000 -.3804  
 .805 -.4007 -.4258 -.4407 -.4481 -.4176 -.3852  
 .857 -.4081 -.4392 -.4523 -.4493 -.4195 -.3930  
 .908 -.4132 -.4543 -.4593 -.4459 -.4114 -.3791

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK111)

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.906 MACH = .89947 Q = 599.38 P = 1059.3 RV/L = 3.5741

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4077 -.4134 -.4313 -.4693 -.4452 -.3877  
 .757 -.4093 -.4225 -.4492 -.4628 -.4000 -.3977  
 .805 -.4163 -.4302 -.4554 -.4573 -.4416 -.3898  
 .887 -.4304 -.4590 -.4688 -.4726 -.4409 -.4009  
 .968 -.4352 -.4710 -.4791 -.4697 -.4385 -.3896

ALPHA ( 2 ) = .014 BETA ( 2 ) = .139 MACH = .89947 Q = 599.38 P = 1059.3 RV/L = 3.5741

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.3358 -.4006 -.4259 -.4622 -.4278 -.3807  
 .757 -.4011 -.4002 -.4347 -.4397 -.4000 -.3822  
 .805 -.4052 -.4090 -.4462 -.4423 -.4282 -.3927  
 .887 -.4102 -.4260 -.4497 -.4540 -.4309 -.3896  
 .968 -.4141 -.4370 -.4619 -.4521 -.4201 -.3788

ALPHA ( 2 ) = .024 BETA ( 3 ) = 4.220 MACH = .89947 Q = 599.38 P = 1059.3 RV/L = 3.5741

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4046 -.4271 -.4348 -.4732 -.4234 -.3888  
 .757 -.4175 -.4223 -.4510 -.4606 -.4000 -.3933  
 .805 -.4175 -.4256 -.4553 -.4401 -.4396 -.4024  
 .887 -.4180 -.4428 -.4749 -.4646 -.4296 -.3885  
 .968 -.4290 -.4610 -.4761 -.4625 -.4279 -.3847

ALPHA ( 3 ) = 3.935 BETA ( 1 ) = -3.911 MACH = .89917 Q = 599.47 P = 1059.2 RV/L = 3.5758

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4182 -.4416 -.4622 -.5026 -.4524 -.4104  
 .757 -.4227 -.4349 -.4730 -.5057 -.4038 -.4038  
 .805 -.4342 -.4541 -.4916 -.4844 -.4646 -.4174  
 .887 -.4453 -.4755 -.4997 -.4997 -.4646 -.4194  
 .968 -.4570 -.4915 -.5083 -.5016 -.4622 -.4093

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.937 BETA ( 2 ) = .151 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758  
 (XEBK11)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3977 -.4018 -.4181 -.4575 -.4281 -.3867  
 .757 -.4082 -.4077 -.4248 -.4602 .0000 -.3859  
 .805 -.4065 -.4206 -.4417 -.4440 -.4398 -.4007  
 .887 -.4037 -.4418 -.4469 -.4543 -.4271 -.4058  
 .958 -.4159 -.4598 -.4638 -.4540 -.4298 -.3912

ALPHA ( 3 ) = 3.940 BETA ( 3 ) = 4.207 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4110 -.4328 -.4515 -.4913 -.4284 -.4022  
 .757 -.4194 -.4347 -.4598 -.4956 .0000 -.4022  
 .805 -.4239 -.4385 -.4682 -.4772 -.4539 -.4050  
 .887 -.4254 -.4627 -.4880 -.4849 -.4405 -.4088  
 .958 -.4374 -.4773 -.5006 -.4784 -.4477 -.3954

ALPHA ( 4 ) = 7.890 BETA ( 1 ) = -3.900 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4536 -.4703 -.4878 -.5450 -.4750 -.4345  
 .757 -.4591 -.4653 -.5024 -.5413 .0000 -.4395  
 .805 -.4679 -.4830 -.5186 -.5200 -.4957 -.4435  
 .887 -.4715 -.5055 -.5257 -.5376 -.4976 -.4309  
 .958 -.4873 -.5279 -.5469 -.5412 -.4881 -.4192

ALPHA ( 4 ) = 7.894 BETA ( 2 ) = .145 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4141 -.4242 -.4579 -.4911 -.4401 -.4079  
 .757 -.4215 -.4254 -.4627 -.4930 .0000 -.4084  
 .805 -.4273 -.4412 -.4841 -.4665 -.4648 -.4136  
 .887 -.4371 -.4577 -.4851 -.4970 -.4627 -.4096  
 .958 -.4376 -.4761 -.5018 -.4913 -.4548 -.3993

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK11)

ALPHA ( 4 ) = 7.892 BETA ( 3 ) = 4.20 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4458	-.4598	-.4811	-.5087	-.4616	-.4339
.757	-.4458	-.4614	-.4863	-.5092	.0000	-.4258
.805	-.4566	-.4554	-.5015	-.5082	-.4939	-.4210
.857	-.4626	-.4919	-.5127	-.5301	-.4865	-.4321
.968	-.4664	-.5185	-.5316	-.5199	-.4803	-.4165

ALPHA ( 5 ) = 11.932 BETA ( 1 ) = -3.884 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4939	-.5095	-.5300	-.5757	-.5047	-.4700
.757	-.4897	-.5093	-.5360	-.5761	.0000	-.4604
.805	-.5036	-.5146	-.5562	-.5631	-.5248	-.4604
.857	-.5007	-.5358	-.5857	-.5714	-.5181	-.4535
.968	-.5131	-.5684	-.5924	-.5755	-.5143	-.4405

ALPHA ( 5 ) = 11.939 BETA ( 2 ) = .148 MACH = .89887 Q = 599.34 P = 1055.7 RN/L = 3.5747

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4512	-.4748	-.4915	-.5536	-.4696	-.4486
.757	-.4696	-.4827	-.5077	-.5505	.0000	-.4443
.805	-.4777	-.4906	-.5262	-.5310	-.5052	-.4481
.857	-.4803	-.5128	-.5453	-.5462	-.4938	-.4460
.968	-.4866	-.5502	-.5589	-.5436	-.4936	-.4321

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.228 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4773	-.4845	-.5281	-.5734	-.4945	-.4476
.757	-.4792	-.4953	-.5355	-.5610	.0000	-.4486
.805	-.4862	-.5036	-.5443	-.5357	-.5210	-.4567
.857	-.4939	-.5522	-.5750	-.5782	-.5143	-.4903
.968	-.4955	-.5766	-.5855	-.5636	-.5100	-.4720

(XEBK12) ( 13 AUG 75 )

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

REFERENCE DATA

REF = 2520.000 SQ.FT. XMRP = 1076.600 IN. X0  
REF = 474.800 IN. YMRP = .0000 IN. Y0  
REF = 335.000 IN. ZMRP = 375.000 IN. Z0  
SCALE = .0333

ALPHA ( 1 ) = -4.057 BETA ( 1 ) = -7.889 MACH = .59636 Q = .593.96 P = 2385.7 RN/L = 4.8160

SECTION 1 - RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -4.979 -5.177 -5.498 -5.600 -5.812 -5.276  
757 -5.023 -5.267 -5.747 -5.725 -5.000 -5.358  
805 -5.177 -5.415 -5.842 -5.568 -5.135 -5.360  
897 -5.124 -5.522 -5.593 -5.751 -5.427 -5.267  
958 -5.279 -5.524 -5.625 -5.561 -5.525 -5.4215

ALPHA ( 2 ) = -4.035 BETA ( 2 ) = -3.874 MACH = .59636 Q = .593.96 P = 2385.7 RN/L = 4.8160

SECTION 2 - RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -4.450 -4.741 -4.973 -5.289 -4.470 -4.4044  
757 -4.497 -4.609 -5.181 -5.143 -5.000 -3943  
805 -4.507 -4.738 -5.236 -4.949 -4.750 -3965  
897 -4.712 -5.183 -5.428 -5.332 -4.614 -3967  
958 -4.835 -5.238 -5.565 -5.207 -4.638 -3782

ALPHA ( 3 ) = -4.017 BETA ( 3 ) = .163 MACH = .59636 Q = .593.96 P = 2385.7 RN/L = 4.8160

SECTION 3 - RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -4.177 -4.446 -4.904 -5.316 -4.351 -3836  
757 -4.338 -4.609 -5.037 -5.234 -5.000 -3942  
805 -4.428 -4.568 -5.160 -5.021 -4.645 -3968  
897 -4.517 -4.817 -5.297 -5.139 -4.610 -3836  
958 -4.552 -5.127 -5.270 -4.985 -4.445 -3693

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000  
BDFLAP = 22.500 L-ELVN = .000  
A-ELVN = .000 MACH = .600

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XE8K12)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

RN/L = 4.8150

P = 2385.7

Q = 593.96

MACH = 4.234

BETA ( 4 ) = -4.026

ALPHA ( 1 ) =

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4272 -.4470 -.4903 -.5274 -.4366 -.3828  
 .757 -.4384 -.4621 -.5092 -.5202 .0000 -.3921  
 .805 -.4475 -.4742 -.5204 -.4840 -.4556 -.3923  
 .887 -.4594 -.5014 -.5355 -.5135 -.4522 -.3783  
 .968 -.4642 -.5311 -.5458 -.5020 -.4467 -.3683

RN/L = 4.8160

P = 2385.7

Q = 593.96

MACH = 4.234

BETA ( 5 ) = -4.040

ALPHA ( 1 ) =

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4700 -.5116 -.5458 -.5568 -.4704 -.4155  
 .757 -.4925 -.5366 -.5689 -.5319 .0000 -.4180  
 .805 -.4934 -.5339 -.5784 -.5248 -.4662 -.4227  
 .887 -.5094 -.5575 -.5904 -.5547 -.4902 -.4101  
 .968 -.5414 -.5835 -.5665 -.5319 -.4663 -.3963

RN/L = 4.8134

P = 2385.7

Q = 594.31

MACH = 4.234

BETA ( 1 ) = -0.47

ALPHA ( 2 ) =

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5396 -.5721 -.6169 -.6577 -.5231 -.4450  
 .757 -.5654 -.5761 -.6313 -.6524 .0000 -.4572  
 .805 -.5534 -.5992 -.6610 -.6153 -.5552 -.4501  
 .887 -.5756 -.6127 -.6703 -.6306 -.5518 -.4603  
 .968 -.5568 -.6556 -.6829 -.6186 -.5420 -.4496

RN/L = 4.8134

P = 2385.7

Q = 594.31

MACH = 4.234

BETA ( 2 ) = -0.057

ALPHA ( 2 ) =

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4628 -.4676 -.5225 -.5771 -.4704 -.4225  
 .757 -.4649 -.4943 -.5333 -.5580 .0000 -.4206  
 .805 -.4871 -.5205 -.5520 -.5328 -.5079 -.4255  
 .887 -.4993 -.5311 -.5630 -.5580 -.5438 -.4125  
 .968 -.5260 -.5751 -.5843 -.5431 -.4895 -.3920

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TABULATED PP SURE DATA - 0A148 (AVES 11-073-1)

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AVES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK12)

ALPHA ( 2 ) = .058 BETA ( 3 ) = .160 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4373	-.4670	-.5102	-.5576	-.4516	-.4048
.757	-.4535	-.4784	-.5236	-.5416	.0000	-.4041
.805	-.4531	-.4822	-.5487	-.5078	-.4796	-.4000
.857	-.4727	-.5134	-.5569	-.5449	-.4842	-.3987
.958	-.4915	-.5346	-.5705	-.5286	-.4789	-.3799

ALPHA ( 2 ) = .052 BETA ( 4 ) = 4.215 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4456	-.4778	-.5121	-.5710	-.4524	-.3981
.757	-.4568	-.4790	-.5399	-.5475	.0000	-.4036
.805	-.4766	-.5054	-.5435	-.5246	-.4799	-.4050
.857	-.4826	-.5334	-.5710	-.5363	-.4701	-.3976
.958	-.5037	-.5457	-.5825	-.5263	-.4681	-.3786

ALPHA ( 2 ) = .048 BETA ( 5 ) = 8.271 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5033	-.5425	-.5822	-.5949	-.4974	-.4335
.757	-.5171	-.5485	-.5997	-.5949	.0000	-.4273
.805	-.5245	-.5640	-.6193	-.5750	-.5122	-.4300
.857	-.5433	-.6109	-.6355	-.5767	-.4952	-.4201
.958	-.5768	-.6330	-.6355	-.5712	-.4923	-.3996

ALPHA ( 3 ) = 3.956 BETA ( 1 ) = -7.937 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6022	-.6391	-.7051	-.7453	-.5966	-.4901
.757	-.6259	-.6400	-.7331	-.7359	.0000	-.4836
.805	-.6222	-.6716	-.7436	-.6951	-.6229	-.4846
.857	-.6450	-.7053	-.7778	-.7121	-.6048	-.4780
.958	-.6665	-.7589	-.7844	-.6960	-.5947	-.4638

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DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE (XEB:12)

ALPHA ( 3 ) = 3.958 BETA ( 2 ) = -3.898 MACH = .59590 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4793 -.5064 -.5496 -.6053 -.4885 -.4249  
 .757 -.4810 -.5100 -.5628 -.5845 .0000 -.4297  
 .805 -.4869 -.5243 -.5837 -.5513 -.5152 -.4206  
 .857 -.5162 -.5662 -.5957 -.5773 -.5136 -.4245  
 .909 -.5435 -.6020 -.6134 -.5597 -.5059 -.4045

ALPHA ( 3 ) = 3.957 BETA ( 3 ) = .162 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4555 -.5035 -.5224 -.5838 -.4768 -.4235  
 .757 -.4511 -.5045 -.5481 -.5764 .0000 -.4178  
 .805 -.4771 -.5071 -.5609 -.5482 -.5124 -.4194  
 .857 -.4968 -.5359 -.5943 -.5499 -.4249 -.4180  
 .909 -.4978 -.5575 -.5886 -.5673 -.4370 -.4080

ALPHA ( 3 ) = 3.954 BETA ( 4 ) = 4.202 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4586 -.4902 -.5383 -.5699 .4693 -.4088  
 .757 -.4779 -.4993 -.5515 -.5749 .0000 -.4141  
 .805 -.4774 -.5131 -.5696 -.5364 -.4975 -.4038  
 .857 -.5007 -.5518 -.5885 -.5613 -.4860 -.4028  
 .909 -.5149 -.5603 -.5938 -.5479 -.4798 -.3702

ALPHA ( 3 ) = 3.950 BETA ( 5 ) = 8.252 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5418 -.5746 -.6324 -.6623 -.5318 -.4429  
 .757 -.5326 -.5846 -.6465 -.6561 .0000 -.4350  
 .805 -.5375 -.6024 -.6733 -.6255 -.5490 -.4394  
 .857 -.5313 -.6044 -.6924 -.6377 -.5366 -.4346  
 .909 -.6241 -.7059 -.6926 -.6186 -.5163 -.3880



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ALPHA ( 4 ) = 7.904 BETA ( 1 ) = -7.922 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202 (XEEK12)

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6156 -.6713 -.7408 -.7708 -.6032 -.4546  
 .757 -.6382 -.6993 -.7625 -.7725 -.0000 -.4565  
 .805 -.6425 -.7048 -.7654 -.7054 -.6144 -.4479  
 .887 -.6511 -.7370 -.8134 -.7465 -.5977 -.4354  
 .958 -.6746 -.7512 -.8239 -.7293 -.5717 -.3731

ALPHA ( 4 ) = 7.913 BETA ( 2 ) = -3.891 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5029 -.5179 -.5546 -.6171 -.5061 -.4357  
 .757 -.4926 -.5128 -.5777 -.5975 -.0000 -.4392  
 .805 -.5133 -.5357 -.6133 -.5636 -.5338 -.4383  
 .887 -.5283 -.5754 -.6150 -.5854 -.5204 -.4300  
 .958 -.5372 -.6042 -.6343 -.5973 -.5147 -.4176

ALPHA ( 4 ) = 7.912 BETA ( 3 ) = .160 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4869 -.5185 -.5495 -.5979 -.5038 -.4393  
 .757 -.4851 -.5168 -.5647 -.5962 -.0000 -.4455  
 .805 -.5073 -.5383 -.5941 -.5540 -.5312 -.4407  
 .887 -.5173 -.5681 -.6127 -.5967 -.5169 -.4360  
 .958 -.5344 -.6027 -.6155 -.5783 -.5238 -.4146

ALPHA ( 4 ) = 7.910 BETA ( 4 ) = 4.204 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4750 -.5295 -.5533 -.5004 -.4924 -.4286  
 .757 -.4750 -.5248 -.5839 -.5911 -.0000 -.4217  
 .805 -.5055 -.5348 -.5940 -.5491 -.5263 -.4221  
 .887 -.5241 -.5764 -.6210 -.5808 -.5036 -.4115  
 .958 -.5283 -.6039 -.6154 -.5725 -.4979 -.4010

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

IXEBK12)

ALPHA ( 5 ) = 7.909 BETA ( 5 ) = 8.256 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.709	.757	.805	.857	.909
	-.5533	-.5952	-.6659	-.6877	-.5447
					-.4162
					.0000
					-.4078
					-.4104
					-.5598
					-.4085
					-.5365
					-.5074
					-.3778

ALPHA ( 5 ) = 11.950 BETA ( 1 ) = -7.879 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.709	.757	.805	.857	.909
	-.6270	-.6625	-.7298	-.7881	-.6200
					-.4677
					.0000
					-.4696
					-.4739
					-.6042
					-.4637
					-.5894
					-.4178

ALPHA ( 5 ) = 11.958 BETA ( 2 ) = -3.271 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.709	.757	.805	.857	.909
	-.5042	-.5287	-.5807	-.6347	-.5145
					-.4421
					.0000
					-.4430
					-.4514
					-.5403
					-.5307
					-.4355
					-.5197
					-.4148

ALPHA ( 5 ) = 11.970 BETA ( 3 ) = .156 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.709	.757	.805	.857	.909
	-.5025	-.5346	-.5839	-.6320	-.5246
					-.4584
					.0000
					-.4558
					-.4608
					-.5543
					-.5466
					-.4618
					-.5371
					-.4290

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.958 BETA ( 4 ) = 4.216 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162  
(XEBK12)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5003 -.5377 -.5851 -.6308 -.5112 -.4447  
.757 -.5193 -.5424 -.6037 -.6111 .0000 -.4399  
.805 -.5222 -.5603 -.6198 -.5726 -.5449 -.4461  
.897 -.5438 -.5892 -.6317 -.6052 -.5394 -.4382  
.968 -.5541 -.5323 -.6418 -.5980 -.5205 -.4209

ALPHA ( 5 ) = 11.959 BETA ( 5 ) = 8.279 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5858 -.6170 -.6858 -.7080 -.5682 -.4501  
.757 -.5942 -.6297 -.7128 -.7049 .0000 -.4410  
.825 -.5289 -.6465 -.7348 -.6576 -.5704 -.4415  
.897 -.5373 -.6952 -.7391 -.6760 -.5539 -.4222  
.968 -.6571 -.7392 -.7473 -.6483 -.5325 -.3730

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(XEBK13) ( 13 AUG 75 )

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -4.106 BETA ( 1 ) = -3.886 MACH = 1.3945 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5576	-.5443	-.5582	-.5580	-.5112	-.4723
.757	-.5412	-.5450	-.5556	-.5535	.0000	-.4725
.805	-.5407	-.5467	-.5718	-.5533	-.5032	-.4763
.887	-.5414	-.5604	-.5763	-.5511	-.4975	-.4782
.968	-.5445	-.5716	-.5772	-.5426	-.4918	-.4851

ALPHA ( 1 ) = -4.030 BETA ( 2 ) = .154 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5485	-.5393	-.5558	-.5518	-.5062	-.4765
.757	-.5359	-.5365	-.5625	-.5451	.0000	-.4739
.805	-.5331	-.5431	-.5667	-.5435	-.4977	-.4796
.887	-.5354	-.5593	-.5715	-.5413	-.4922	-.4808
.968	-.5397	-.5704	-.5703	-.5335	-.4891	-.4849

ALPHA ( 1 ) = -4.039 BETA ( 3 ) = 4.249 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5538	-.5440	-.5590	-.5590	-.5129	-.4874
.757	-.5402	-.5450	-.5666	-.5503	.0000	-.4869
.805	-.5393	-.5512	-.5699	-.5481	-.5063	-.4918
.887	-.5417	-.5636	-.5735	-.5458	-.5020	-.4909
.968	-.5474	-.5712	-.5735	-.5347	-.5018	-.4890

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AYES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK13)  
 ALPHA ( 2 ) = -.033 BETA ( 1 ) = -3.905 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5628 -.5483 -.5617 -.5665 -.5242 -.4791  
 .757 -.5459 -.5476 -.5684 -.5624 -.0000 -.4777  
 .805 -.5442 -.5504 -.5738 -.5622 -.5161 -.4798  
 .887 -.5447 -.5648 -.5793 -.5605 -.5109 -.4797  
 .968 -.5471 -.5736 -.5810 -.5541 -.5057 -.4819

ALPHA ( 2 ) = -.028 BETA ( 2 ) = .144 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5552 -.5440 -.5586 -.5624 -.5193 -.4806  
 .757 -.5428 -.5454 -.5658 -.5555 -.0000 -.4792  
 .805 -.5404 -.5478 -.5707 -.5563 -.5121 -.4780  
 .887 -.5409 -.5609 -.5767 -.5553 -.5076 -.4759  
 .968 -.5440 -.5692 -.5767 -.5473 -.4993 -.4778

ALPHA ( 2 ) = -.033 BETA ( 3 ) = 4.229 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9115

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5586 -.5471 -.5630 -.5656 -.5241 -.4914  
 .757 -.5455 -.5479 -.5680 -.5595 -.0000 -.4895  
 .805 -.5433 -.5526 -.5742 -.5600 -.5175 -.4921  
 .887 -.5457 -.5661 -.5768 -.5591 -.5127 -.4895  
 .968 -.5492 -.5728 -.5782 -.5512 -.5082 -.4926

ALPHA ( 3 ) = 3.851 BETA ( 1 ) = -3.904 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5578 -.5526 -.5643 -.5740 -.5408 -.4936  
 .757 -.5521 -.5526 -.5700 -.5714 -.0000 -.4875  
 .805 -.5493 -.5545 -.5766 -.5721 -.5330 -.4844  
 .887 -.5500 -.5638 -.5828 -.5725 -.5278 -.4824  
 .968 -.5516 -.5721 -.5940 -.5549 -.5195 -.4812

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE (XEBK13)

ALPHA ( 3 ) = 3.949 BETA ( 2 ) = .141 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5616 -.5475 -.5597 -.5690 -.5341 -.4879  
 .757 -.5478 -.5478 -.5649 -.5652 -.0000 -.4816  
 .805 -.5442 -.5499 -.5716 -.5664 -.5256 -.4787  
 .887 -.5440 -.5593 -.5777 -.5666 -.5216 -.4728  
 .968 -.5471 -.5678 -.5794 -.5602 -.5147 -.4728

ALPHA ( 3 ) = 3.862 BETA ( 3 ) = 4.219 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9157

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5665 -.5541 -.5670 -.5768 -.5383 -.4883  
 .757 -.5510 -.5535 -.5732 -.5725 -.0000 -.4809  
 .805 -.5493 -.5565 -.5789 -.5739 -.5303 -.4774  
 .887 -.5496 -.5554 -.5855 -.5737 -.5250 -.4743  
 .968 -.5515 -.5763 -.5879 -.5685 -.5191 -.4736

ALPHA ( 4 ) = 7.881 BETA ( 1 ) = -3.904 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5764 -.5621 -.5722 -.5819 -.5658 -.5131  
 .757 -.5625 -.5631 -.5774 -.5800 -.0000 -.5071  
 .805 -.5602 -.5547 -.5838 -.5807 -.5506 -.5038  
 .887 -.5588 -.5729 -.5888 -.5802 -.5434 -.5003  
 .968 -.5609 -.5803 -.5881 -.5738 -.5368 -.4994

ALPHA ( 4 ) = 7.933 BETA ( 2 ) = .128 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5691 -.5563 -.5687 -.5801 -.5514 -.5042  
 .757 -.5556 -.5561 -.5730 -.5777 -.0000 -.4933  
 .805 -.5542 -.5577 -.5798 -.5796 -.5443 -.4900  
 .887 -.5520 -.5664 -.5848 -.5808 -.5381 -.4876  
 .968 -.5542 -.5758 -.5870 -.5756 -.5315 -.4835

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.934 BETA ( 3 ) = 4.214 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150  
(XEBK13)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5735 -.5597 -.5768 -.5856 -.5514 -.4973  
.757 -.5583 -.5590 -.5811 -.5818 -.0000 -.4880  
.805 -.5571 -.5616 -.5870 -.5827 -.5421 -.4854  
.887 -.5559 -.5733 -.5925 -.5832 -.5374 -.4813  
.968 -.5573 -.5819 -.5934 -.5804 -.5338 -.4753

ALPHA ( 5 ) = 11.884 BETA ( 1 ) = -3.887 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5836 -.5694 -.5787 -.5903 -.5640 -.5233  
.757 -.5691 -.5694 -.5842 -.5863 -.0300 -.5166  
.805 -.5658 -.5710 -.5908 -.5884 -.5576 -.5128  
.887 -.5656 -.5786 -.5970 -.5875 -.5522 -.5087  
.968 -.5575 -.5857 -.5956 -.5794 -.5448 -.5087

ALPHA ( 5 ) = 11.881 BETA ( 2 ) = .152 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5784 -.5648 -.5764 -.5902 -.5643 -.5153  
.757 -.5655 -.5648 -.5814 -.5885 -.0000 -.5039  
.805 -.5636 -.5650 -.5875 -.5899 -.5569 -.5015  
.887 -.5624 -.5748 -.5937 -.5916 -.5528 -.4962  
.968 -.5543 -.5920 -.5963 -.5975 -.5464 -.4940

ALPHA ( 5 ) = 11.887 BETA ( 3 ) = 4.229 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5860 -.5741 -.5852 -.5949 -.5624 -.5149  
.757 -.5715 -.5741 -.5904 -.5911 -.0000 -.5080  
.805 -.5701 -.5739 -.5961 -.5918 -.5555 -.5040  
.887 -.5693 -.5839 -.5889 -.5916 -.5500 -.4977  
.968 -.5708 -.5908 -.5996 -.5913 -.5472 -.4920

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK13)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 6 ) = 15.888 BETA ( 1 ) = -3.863 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5974 -.5852 -.5965 -.6015 -.5716 -.5355  
 .757 -.5950 -.5855 -.6020 -.5972 .0000 -.5332  
 .805 -.5824 -.5874 -.6074 -.5972 -.5666 -.5325  
 .897 -.5821 -.6035 -.6105 -.5946 -.5616 -.5353  
 .958 -.5860 -.6085 -.6079 -.5863 -.5545 -.5333

ALPHA ( 6 ) = 15.865 BETA ( 2 ) = .152 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5910 -.5784 -.5897 -.6009 -.5724 -.5243  
 .757 -.5782 -.5791 -.5952 -.5983 .0000 -.5159  
 .805 -.5777 -.5798 -.6018 -.5992 -.5655 -.5126  
 .897 -.5762 -.5917 -.6061 -.6002 -.5608 -.5127  
 .958 -.5774 -.5998 -.6079 -.5959 -.5544 -.5108

ALPHA ( 6 ) = 15.903 BETA ( 3 ) = 4.263 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5907 -.5859 -.5983 -.5994 -.5700 -.5380  
 .757 -.5847 -.5862 -.6028 -.5940 .0000 -.5330  
 .805 -.5931 -.5983 -.6056 -.5937 -.5641 -.5288  
 .887 -.5817 -.5983 -.6068 -.5923 -.5582 -.5302  
 .958 -.5931 -.6028 -.6089 -.5933 -.5501 -.5271



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK14) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -4.010 BETA ( 1 ) = -3.884 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6703 -.6553 -.6728 -.6842 -.6388 -.5695  
 .757 -.6559 -.6563 -.6809 -.6833 -.0000 -.5605  
 .805 -.6523 -.6577 -.6929 -.6959 -.6270 -.5562  
 .857 -.6520 -.6707 -.7006 -.6842 -.6203 -.5529  
 .908 -.6558 -.6847 -.7056 -.6768 -.6101 -.5489

ALPHA ( 2 ) = -3.944 BETA ( 2 ) = .148 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6550 -.6422 -.6596 -.6698 -.6265 -.5647  
 .757 -.6434 -.6422 -.6689 -.6693 -.0000 -.5514  
 .805 -.6388 -.6443 -.6788 -.6717 -.6154 -.5481  
 .857 -.6383 -.6511 -.6886 -.6705 -.6075 -.5450  
 .908 -.6445 -.6761 -.6924 -.6641 -.5978 -.5386

ALPHA ( 3 ) = -4.009 BETA ( 3 ) = 4.237 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6550 -.6512 -.6719 -.6802 -.6361 -.5785  
 .757 -.6503 -.6524 -.6783 -.6767 -.5704 -.5704  
 .805 -.6467 -.6570 -.6862 -.6788 -.6257 -.5652  
 .857 -.6436 -.6711 -.6933 -.6786 -.6188 -.5633  
 .908 -.6555 -.6835 -.6973 -.6705 -.6095 -.5581

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK14)

ALPHA ( 2 ) = .205 BETA ( 1 ) = -3.866 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6725 -.6578 -.6696 -.6937 -.6497 -.5766  
 .757 -.6547 -.6592 -.6774 -.6925 .0000 -.5595  
 .805 -.6514 -.6625 -.6913 -.6939 -.6376 -.5579  
 .887 -.6490 -.6772 -.7039 -.6920 -.6260 -.5515  
 .958 -.6673 -.6891 -.7077 -.6835 -.6121 -.5458

ALPHA ( 2 ) = .220 BETA ( 2 ) = .185 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6609 -.6490 -.6628 -.6862 -.6417 -.5773  
 .757 -.6443 -.6504 -.6730 -.6836 .0000 -.5583  
 .805 -.6405 -.6533 -.6843 -.6846 -.6265 -.5534  
 .887 -.6412 -.6703 -.6950 -.6834 -.6187 -.5506  
 .958 -.6514 -.6819 -.6988 -.6758 -.6092 -.5430

ALPHA ( 2 ) = .215 BETA ( 3 ) = 4.264 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6745 -.6500 -.6711 -.6919 -.6493 -.5840  
 .757 -.6555 -.6608 -.6803 -.6898 .0000 -.5688  
 .805 -.6520 -.6646 -.6915 -.6905 -.6355 -.5660  
 .887 -.6527 -.6915 -.7024 -.6893 -.6292 -.5646  
 .968 -.6631 -.6917 -.7054 -.6810 -.6185 -.5574

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -3.872 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0268

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6730 -.6597 -.6686 -.6909 -.6613 -.5966  
 .757 -.6575 -.6599 -.6769 -.6890 .0000 -.5826  
 .805 -.6544 -.6621 -.6881 -.6909 -.6530 -.5792  
 .887 -.6530 -.6732 -.6924 -.6909 -.6430 -.5749  
 .968 -.6561 -.6813 -.6961 -.6819 -.6262 -.5727

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE  
 ALPHA ( 3 ) = 3.903 BETA ( 2 ) = .184 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266  
 (XEBK14)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6599 -.6568 -.6667 -.6930 -.6562 -.5861  
 .757 -.6546 -.6584 -.6745 -.6927 .0000 -.5672  
 .805 -.6511 -.6603 -.6859 -.6951 -.6439 -.5648  
 .887 -.6436 -.6718 -.6998 -.6958 -.6340 -.5589  
 .968 -.6589 -.6834 -.7059 -.6906 -.6224 -.5487

ALPHA ( 3 ) = 3.907 BETA ( 3 ) = 4.256 MACH = 1.2473 Q = 600.93 P = 551.82 RN/L = 3.0266

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6740 -.6617 -.6733 -.6956 -.6527 -.5847  
 .757 -.6574 -.6631 -.6835 -.6942 .0000 -.5705  
 .805 -.6536 -.6667 -.6947 -.6959 -.6402 -.5672  
 .887 -.6541 -.6929 -.7042 -.6925 -.6316 -.5606  
 .968 -.6624 -.6927 -.7070 -.6835 -.6207 -.5542

ALPHA ( 4 ) = 7.853 BETA ( 1 ) = -3.870 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0236

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6767 -.6539 -.6718 -.6926 -.6542 -.6031  
 .757 -.6533 -.6619 -.6808 -.6912 .0000 -.5882  
 .805 -.6565 -.6652 -.6836 -.6917 -.6533 -.5834  
 .887 -.6562 -.6785 -.6967 -.6922 -.6464 -.5786  
 .968 -.6614 -.6859 -.7009 -.6848 -.6336 -.5681

ALPHA ( 4 ) = 7.959 BETA ( 2 ) .181 MACH = 1.2469 Q = 600.88 P = 552.06 RN/L = 3.0236

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6756 -.6523 -.6697 -.6974 -.6649 -.5901  
 .757 -.6504 -.6639 -.6732 -.6983 .0000 -.5742  
 .805 -.6565 -.6655 -.6855 -.7009 -.6507 -.5690  
 .887 -.6554 -.6734 -.6926 -.7026 -.6403 -.5618  
 .968 -.6642 -.6810 -.7106 -.6997 -.6334 -.5512

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK14)

ALPHA ( 4 ) = 7.960 BETA ( 3 ) = 4.251 MACH = 1.2469 0 = 600.88 P = 552.06 RN/L = 3.0236

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6854	-.6759	-.6875	-.7006	-.6588	-.5993
.757	-.6709	-.6752	-.6837	-.6996	.0000	-.5875
.805	-.6666	-.6790	-.7032	-.7018	-.6527	-.5839
.887	-.6663	-.6946	-.7134	-.7001	-.6482	-.5791
.968	-.6752	-.7031	-.7110	-.6873	-.6458	-.5772

ALPHA ( 5 ) = 11.929 BETA ( 1 ) = -3.853 MACH = 1.2466 0 = 600.83 P = 552.29 RN/L = 3.0248

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6796	-.6648	-.6787	-.6925	-.6605	-.6049
.757	-.6517	-.6659	-.6954	-.6924	.0000	-.5947
.805	-.6591	-.6707	-.6951	-.6918	-.6500	-.5895
.887	-.6508	-.6837	-.6998	-.6904	-.6465	-.5839
.968	-.6674	-.6880	-.7022	-.6797	-.6320	-.5711

ALPHA ( 5 ) = 11.937 BETA ( 2 ) = .177 MACH = 1.2466 0 = 600.83 P = 552.29 RN/L = 3.0248

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6814	-.6588	-.6772	-.7028	-.6751	-.5983
.757	-.6656	-.6700	-.6810	-.7054	.0000	-.5834
.805	-.6631	-.6704	-.6917	-.7095	-.6607	-.5758
.887	-.6623	-.6816	-.7104	-.7099	-.6505	-.5702
.968	-.6726	-.6933	-.7149	-.7078	-.6441	-.5612

ALPHA ( 5 ) = 11.932 BETA ( 3 ) = 4.267 MACH = 1.2466 0 = 600.83 P = 552.29 RN/L = 3.0248

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6964	-.6981	-.6991	-.7121	-.6438	-.5732
.757	-.6788	-.6979	-.7035	-.7092	.0000	-.5630
.805	-.6760	-.6995	-.7206	-.7085	-.6464	-.5765
.887	-.5783	-.7040	-.7322	-.6976	-.6348	-.5802
.968	-.5964	-.7152	-.7263	-.6760	-.6246	-.5856

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/8/C/R ORB SPEED BRAKE

(XESK15) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SC.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.9000 IN. YMRP = .0000 IN. Y0  
 SREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.072 BETA ( 1 ) = -3.851 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7769 -.7697 -.7871 -.8195 -.7669 -.6740  
 .757 -.7593 -.7700 -.8013 -.8191 .0000 -.6496  
 .805 -.7579 -.7757 -.8186 -.8224 -.7494 -.6456  
 .867 -.7514 -.7399 -.8342 -.8188 -.7338 -.6415  
 .968 -.7745 -.8176 -.8413 -.8058 -.7200 -.6308

ALPHA ( 2 ) = -4.070 BETA ( 2 ) = .169 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

## SECTION ( 2 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7694 -.7644 -.7824 -.8161 -.7625 -.6762  
 .757 -.7572 -.7653 -.7983 -.8138 .0000 -.6517  
 .805 -.7529 -.7736 -.8152 -.8159 -.7442 -.6467  
 .867 -.7579 -.7919 -.8311 -.8128 -.7345 -.6398  
 .968 -.7729 -.8095 -.8365 -.8033 -.7151 -.6244

ALPHA ( 3 ) = -4.075 BETA ( 3 ) = 4.283 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890

## SECTION ( 3 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7761 -.7705 -.7883 -.8185 -.7699 -.6871  
 .757 -.7638 -.7731 -.8033 -.8178 .0000 -.6717  
 .805 -.7500 -.7803 -.8209 -.8178 -.7516 -.6545  
 .867 -.7616 -.8012 -.8370 -.8161 -.7419 -.6528  
 .968 -.7748 -.8177 -.8440 -.8056 -.7295 -.6407

## PARAMETRIC DATA

RUDDER = .000 SPD8RK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK15)

ALPHA ( 2 ) = -.011 BETA ( 1 ) = -3.863 MACH = 1.0994 O = 599.94 P = 709.08 RV/L = 3.1892

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7547 -.7515 -.7681 -.8013 -.7503 -.6524  
 .757 -.7407 -.7514 -.7816 -.7998 -.0000 -.6341  
 .805 -.7361 -.7554 -.7996 -.8046 -.7354 -.6261  
 .887 -.7380 -.7730 -.8152 -.7998 -.7185 -.6107  
 .958 -.7537 -.7884 -.8235 -.7885 -.7041 -.5999

ALPHA ( 2 ) = -.004 BETA ( 2 ) = .183 MACH = 1.0994 O = 599.94 P = 709.08 RV/L = 3.1892

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7588 -.7545 -.7716 -.8049 -.7557 -.6599  
 .757 -.7457 -.7554 -.7856 -.8063 -.0000 -.6378  
 .805 -.7402 -.7624 -.8042 -.8084 -.7345 -.6352  
 .887 -.7485 -.7778 -.8220 -.8082 -.7217 -.6220  
 .958 -.7631 -.7944 -.8285 -.8006 -.7084 -.6063

ALPHA ( 2 ) = -.007 BETA ( 3 ) = 4.260 MACH = 1.0994 O = 599.94 P = 709.08 RV/L = 3.1892

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7330 -.7291 -.7452 -.7787 -.7343 -.6469  
 .757 -.7229 -.7325 -.7595 -.7768 -.0000 -.6346  
 .805 -.7203 -.7411 -.7790 -.7799 -.7220 -.6312  
 .887 -.7215 -.7678 -.7946 -.7783 -.7084 -.6251  
 .958 -.7330 -.7842 -.8003 -.7659 -.6961 -.6156

ALPHA ( 3 ) = 3.931 BETA ( 1 ) = -3.870 MACH = 1.0960 O = 598.54 P = 711.89 RV/L = 3.1895

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7318 -.7222 -.7407 -.7761 -.7276 -.6239  
 .757 -.7179 -.7256 -.7528 -.7778 -.0000 -.6111  
 .805 -.7110 -.7327 -.7733 -.7790 -.7091 -.6075  
 .887 -.7136 -.7332 -.7920 -.7768 -.6934 -.6012  
 .958 -.7237 -.7728 -.7951 -.7637 -.6812 -.5867

11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
 (XEBK15)

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.932 BETA ( 2 ) = .189 MACH = 1.096 Q = 598.54 P = 711.89 RN/L = 3.1895  
 AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK15)

SECTION ( UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7445 -.7411 -.7589 -.7941 -.7432 -.6475  
 .757 -.7325 -.7445 -.7756 -.7972 .0000 -.6287  
 .805 -.7297 -.7505 -.7944 -.7996 -.7265 -.6223  
 .897 -.7342 -.7717 -.8120 -.7984 -.7109 -.6152  
 .959 -.7455 -.7899 -.8186 -.7936 -.6951 -.6004

ALPHA ( 3 ) = 3.935 BETA ( 3 ) = .4249 MACH = 1.0360 Q = 598.54 P = 711.89 RN/L = 3.1895

SECTION ( UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7144 -.7159 -.7340 -.7654 -.7112 -.6128  
 .757 -.7027 -.7116 -.7516 -.7697 .0630 -.6012  
 .805 -.7049 -.7254 -.7702 -.7704 -.6957 -.5909  
 .897 -.7020 -.7459 -.7878 -.7647 -.6819 -.5882  
 .959 -.7214 -.7701 -.7914 -.7557 -.6652 -.5739

ALPHA ( 4 ) = 7.884 BETA ( 1 ) = -3.865 MACH = 1.0965 Q = 599.29 P = 709.30 RN/L = 3.1866

SECTION ( UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7186 -.7160 -.7393 -.7650 -.7021 -.6082  
 .757 -.7079 -.7174 -.7557 -.7676 .0000 -.5940  
 .805 -.7063 -.7255 -.7721 -.7692 -.6893 -.5847  
 .897 -.7129 -.7589 -.7808 -.7634 -.6753 -.5927  
 .959 -.7231 -.7853 -.7863 -.7467 -.6563 -.5774

ALPHA ( 4 ) = 7.955 BETA ( 2 ) = .179 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1866

SECTION ( UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7136 -.7091 -.7278 -.7544 -.7116 -.6130  
 .757 -.6035 -.7103 -.7430 -.7674 .0000 -.5961  
 .805 -.6959 -.7191 -.7551 -.7698 -.6900 -.5909  
 .897 -.7005 -.7391 -.7545 -.7560 -.6800 -.5802  
 .959 -.7248 -.7610 -.7943 -.7548 -.6600 -.5683

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TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R OR8 SPEED BRAKE

(XEBK15)

ALPHA ( 4 ) = 7.955 BETA ( 3 ) = 4.242 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7293 -.7250 -.7376 -.7706 -.7134 -.5832  
 .757 -.7121 -.7245 -.7544 -.7718 .0000 -.5756  
 .805 -.7107 -.7345 -.7796 -.7796 -.6813 -.5657  
 .887 -.7057 -.7610 -.7855 -.7727 -.6654 -.5564  
 .959 -.7228 -.7800 -.7917 -.7608 -.6481 -.5409

ALPHA ( 5 ) = 11.925 BETA ( 1 ) = -3.850 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7401 -.7339 -.7566 -.7873 -.7197 -.6061  
 .757 -.7268 -.7360 -.7761 -.7901 .0000 -.5915  
 .805 -.7222 -.7487 -.7985 -.7911 -.6929 -.5782  
 .887 -.7320 -.7657 -.8165 -.7771 -.6784 -.5605  
 .959 -.7430 -.7814 -.8173 -.7609 -.6558 -.5448

ALPHA ( 5 ) = 11.933 BETA ( 2 ) = .177 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7131 -.7105 -.7310 -.7628 -.7160 -.6240  
 .757 -.7057 -.7148 -.7457 -.7630 .0000 -.6060  
 .805 -.6959 -.7222 -.7623 -.7690 -.6931 -.5988  
 .887 -.7133 -.7491 -.7780 -.7628 -.6834 -.6019  
 .959 -.7224 -.7632 -.7837 -.7547 -.6677 -.5991

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.259 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7529 -.7527 -.7696 -.8069 -.7401 -.6157  
 .757 -.7396 -.7557 -.7659 -.8045 .0000 -.6036  
 .805 -.7375 -.7537 -.8095 -.8338 -.7196 -.5943  
 .887 -.7386 -.7535 -.8285 -.8396 -.6970 -.5922  
 .959 -.7694 -.8053 -.8236 -.7786 -.6792 -.5630



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(XEBK16) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 574.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.023 BETA ( 1 ) = -3.952 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.5879 -.5922 -.6529 -.6943 -.5860 -.3953  
 .757 -.5580 -.6029 -.6830 -.7123 .0000 -.3792  
 .805 -.5635 -.6247 -.7268 -.7045 -.5410 -.3730  
 .857 -.5770 -.6688 -.7556 -.6941 -.5167 -.3430  
 .908 -.6231 -.7405 -.7674 -.6754 -.5072 -.3214

ALPHA ( 1 ) = -3.925 BETA ( 2 ) = .188 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.5131 -.5219 -.5798 -.6255 -.5340 -.3947  
 .757 -.5052 -.5262 -.6103 -.6316 .0000 -.3677  
 .805 -.5121 -.5440 -.6516 -.6271 -.5046 -.3629  
 .857 -.5176 -.5975 -.6850 -.6181 -.4800 -.3420  
 .908 -.5583 -.6562 -.6966 -.6042 -.4658 -.3235

ALPHA ( 1 ) = -3.933 BETA ( 3 ) = 4.285 MACH = .90217 Q = 601.77 P = 1056.2 RN/L = 3.5811

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.5794 -.5908 -.6370 -.6815 -.5991 -.4264  
 .757 -.5539 -.5884 -.6706 -.6973 .0000 -.4082  
 .805 -.5515 -.6179 -.7003 -.6789 -.5594 -.3966  
 .857 -.5720 -.6222 -.7326 -.6796 -.5423 -.3735  
 .908 -.6158 -.7032 -.7473 -.6699 -.5184 -.3574

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK16)

ALPHA ( 2 ) = .017 BETA ( 1 ) = -3.871 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6020 -.6082 -.6735 -.7018 -.5438 -.3189  
 .757 -.5791 -.6161 -.7205 -.7124 .0000 -.2992  
 .805 -.5672 -.6469 -.7561 -.6953 -.4785 -.2961  
 .887 -.5887 -.7076 -.7827 -.6828 -.4604 -.2592  
 .958 -.6311 -.7659 -.7766 -.6535 -.4324 -.2431

ALPHA ( 2 ) = .043 BETA ( 2 ) = .183 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5365 -.5410 -.6040 -.6375 -.5439 -.3768  
 .757 -.5226 -.5574 -.6418 -.6435 .0000 -.3602  
 .805 -.5291 -.5784 -.6654 -.6378 -.5061 -.3433  
 .887 -.5431 -.6360 -.7077 -.6283 -.4814 -.3295  
 .958 -.5801 -.6931 -.7050 -.6226 -.4470 -.3145

ALPHA ( 2 ) = .037 BETA ( 3 ) = 4.263 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5821 -.5864 -.6462 -.6640 -.5424 -.3420  
 .757 -.5595 -.6033 -.6873 -.6621 .0000 -.3325  
 .805 -.5638 -.6353 -.7148 -.6631 -.5056 -.3242  
 .887 -.5857 -.6753 -.7336 -.6524 -.4871 -.3119  
 .958 -.6310 -.7131 -.7285 -.6260 -.4475 -.2841

ALPHA ( 3 ) = 3.891 BETA ( 1 ) = -3.877 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5478 -.5547 -.6275 -.6251 -.4300 -.2345  
 .757 -.5238 -.5526 -.6683 -.6315 .0000 -.2207  
 .805 -.5264 -.5898 -.7079 -.6299 -.3928 -.2160  
 .887 -.5404 -.6641 -.7371 -.5879 -.3603 -.2165  
 .958 -.5769 -.7095 -.7217 -.5677 -.3413 -.2177

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.016 BETA ( 2 ) = .188 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722  
 (XEBK16)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5267 -.5343 -.6111 -.6327 -.5042 -.3327  
 .757 -.5153 -.5548 -.6370 -.6244 .0000 -.3130  
 .805 -.5167 -.5765 -.6709 -.6275 -.4688 -.3054  
 .887 -.5336 -.6387 -.7006 -.6099 -.4496 -.2998  
 .968 -.5808 -.6822 -.7055 -.5933 -.4150 -.2737

ALPHA ( 3 ) = 4.017 BETA ( 3 ) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5269 -.5495 -.6032 -.5889 -.4386 -.2947  
 .757 -.5105 -.5653 -.6319 -.5951 .0000 -.2805  
 .805 -.5174 -.6099 -.6637 -.5813 -.4073 -.2784  
 .887 -.5522 -.6389 -.6680 -.5725 -.3869 -.2620  
 .968 -.5985 -.6710 -.6730 -.5393 -.3783 -.2496

ALPHA ( 4 ) = 7.978 BETA ( 1 ) = -3.868 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5343 -.5381 -.6248 -.6104 -.4077 -.2386  
 .757 -.5188 -.5524 -.6543 -.5871 .0000 -.2174  
 .805 -.5185 -.5934 -.6799 -.5978 -.3681 -.2284  
 .887 -.5365 -.6465 -.6846 -.5596 -.3460 -.2129  
 .968 -.5729 -.6919 -.6901 -.5121 -.3316 -.2131

ALPHA ( 4 ) = 7.924 BETA ( 2 ) = .181 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5240 -.5323 -.6039 -.6198 -.4585 -.2838  
 .757 -.5069 -.5342 -.6428 -.6259 .0000 -.2657  
 .805 -.5259 -.5592 -.6741 -.6150 -.4396 -.2479  
 .887 -.5357 -.5447 -.7013 -.5996 -.4132 -.2664  
 .968 -.5647 -.6937 -.7070 -.5747 -.3841 -.2302

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK16)

ALPHA ( 4 ) = 7.921 BETA ( 3 ) = 4.257 MACH = .90107 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5188	-.5366	-.6125	-.5638	-.3914	-.2503
.757	-.5038	-.5552	-.6348	-.5541	.0000	-.2347
.805	-.5159	-.6027	-.6577	-.5398	-.3791	-.2482
.857	-.5397	-.6539	-.6710	-.5311	-.3436	-.2354
.958	-.5975	-.6703	-.6367	-.4889	-.3256	-.2323

ALPHA ( 5 ) = 11.916 BETA ( 1 ) = -3.856 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5661	-.5489	-.5764	-.6491	-.4003	-.2500
.757	-.5392	-.5494	-.5950	-.5783	.0000	-.2479
.805	-.5415	-.5665	-.5175	-.5584	-.3842	-.2439
.857	-.5353	-.6005	-.6588	-.5582	-.3443	-.2375
.958	-.5492	-.6333	-.5721	-.5228	-.3362	-.2392

ALPHA ( 5 ) = 11.928 BETA ( 2 ) = .182 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5497	-.5361	-.5737	-.6576	-.4275	-.2597
.757	-.5325	-.5385	-.5934	-.5718	.0000	-.2455
.805	-.5292	-.5500	-.6191	-.5713	-.3966	-.2386
.857	-.5323	-.5325	-.6550	-.5528	-.3831	-.2342
.958	-.5531	-.6325	-.5697	-.5195	-.3472	-.2129

ALPHA ( 5 ) = 11.917 BETA ( 3 ) = 4.273 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5583	-.5547	-.5016	-.6382	-.3966	-.2459
.757	-.5377	-.5702	-.6268	-.5615	.0000	-.2414
.805	-.5494	-.5757	-.6539	-.5610	-.3709	-.2367
.857	-.5533	-.6232	-.6553	-.5365	-.3552	-.2496
.958	-.6007	-.6478	-.6432	-.4997	-.3384	-.2339

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK17) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2692.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.112 BETA ( 1 ) = -7.854 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6426 -.6801 -.8172 -.6872 -.1998 -.0836  
 .757 -.6289 -.6970 -.8387 -.5867 .0000 -.0970  
 .805 -.6315 -.7791 -.8535 -.5501 -.2179 -.0927  
 .887 -.6616 -.8783 -.8607 -.5049 -.2533 -.1287  
 .968 -.7333 -.9253 -.8318 -.4527 -.2669 -.2004

ALPHA ( 1 ) = -4.086 BETA ( 2 ) = -3.838 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5934 -.6107 -.7274 -.6871 -.2698 -.0935  
 .757 -.5898 -.6493 -.7819 -.5589 .0000 -.0904  
 .805 -.5846 -.7057 -.8280 -.5597 -.2364 -.0873  
 .887 -.6053 -.8168 -.8235 -.5008 -.2457 -.1221  
 .968 -.6858 -.8875 -.7564 -.4598 -.2412 -.1630

ALPHA ( 1 ) = -4.079 BETA ( 3 ) = .201 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5557 -.5823 -.6738 -.6693 -.3145 -.1667  
 .757 -.5628 -.5939 -.7321 -.5519 .0000 -.1538  
 .805 -.5512 -.6399 -.7435 -.5307 -.3038 -.1381  
 .887 -.5868 -.7355 -.7395 -.4896 -.2798 -.1280  
 .968 -.6248 -.8109 -.7376 -.4469 -.2421 -.1571

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK17)

ALPHA ( 1 ) = -4.086 BETA ( 4 ) = 4.270 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5569 -.5714 -.6199 -.6439 -.3574 -.1820  
 .757 -.5486 -.5750 -.6527 -.5391 .0000 -.1962  
 .805 -.5588 -.5984 -.6874 -.5334 -.3398 -.1943  
 .887 -.5735 -.6815 -.7060 -.5205 -.3298 -.1965  
 .968 -.5982 -.7617 -.6865 -.4773 -.3085 -.1998

ALPHA ( 1 ) = -4.101 BETA ( 5 ) = 8.352 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6507 -.6512 -.7302 -.6068 -.3266 -.1614  
 .757 -.6244 -.6579 -.7650 -.5486 .0000 -.1748  
 .805 -.6153 -.7104 -.8014 -.5346 -.3085 -.1622  
 .887 -.6550 -.8152 -.8033 -.5119 -.2956 -.1864  
 .968 -.6928 -.8694 -.7516 -.4509 -.2884 -.2191

ALPHA ( 2 ) = .084 BETA ( 1 ) = -7.892 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6867 -.6749 -.8116 -.7012 -.2317 -.0687  
 .757 -.6611 -.6920 -.8465 -.5841 .0000 -.0780  
 .805 -.6535 -.7447 -.8659 -.5700 -.2131 -.0970  
 .887 -.6570 -.8622 -.8772 -.4959 -.2301 -.1373  
 .968 -.7039 -.9228 -.6413 -.4308 -.2515 -.2081

ALPHA ( 2 ) = .094 BETA ( 2 ) = -3.858 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6461 -.6397 -.7348 -.6913 -.2814 -.1070  
 .757 -.6258 -.6418 -.7577 -.5976 .0000 -.1080  
 .805 -.6261 -.6673 -.7345 -.5781 -.2589 -.1120  
 .887 -.6311 -.7454 -.8369 -.5117 -.2415 -.1132  
 .968 -.6459 -.8369 -.8194 -.4598 -.2293 -.1481

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ALPHA ( 2 ) = .071 BETA ( 3 ) = .198 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159  
(XEBK17)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6219 -.6193 -.7105 -.6707 -.3251 -.1173  
.757 -.6060 -.6245 -.7279 -.5744 .0000 -.1204  
.805 -.6005 -.6490 -.7691 -.5539 -.2901 -.1173  
.887 -.6117 -.7228 -.8032 -.5392 -.2608 -.1150  
.968 -.6274 -.8111 -.7944 -.4679 -.2286 -.1296

ALPHA ( 2 ) = .068 BETA ( 4 ) = 4.249 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6415 -.6351 -.7019 -.6384 -.3282 -.1321  
.757 -.6108 -.6372 -.7534 -.5661 .0000 -.1467  
.805 -.6139 -.6551 -.7828 -.5535 -.2974 -.1350  
.887 -.6251 -.7351 -.8239 -.5236 -.2676 -.1380  
.968 -.6453 -.8446 -.8057 -.4604 -.2373 -.1770

ALPHA ( 2 ) = .061 BETA ( 5 ) = 8.308 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.8159

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6640 -.6517 -.7527 -.5958 -.3227 -.1582  
.757 -.6345 -.6564 -.7834 -.5646 .0000 -.1496  
.805 -.6298 -.7156 -.8257 -.5553 -.3129 -.1534  
.887 -.6581 -.8293 -.8317 -.5153 -.2991 -.1695  
.968 -.6820 -.8331 -.7725 -.4552 -.2602 -.1991

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -7.903 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6784 -.6759 -.7909 -.6887 -.1967 -.0589  
.757 -.5422 -.5817 -.8127 -.5803 .0000 -.0826  
.805 -.6497 -.7103 -.8444 -.5655 -.2087 -.0974  
.887 -.6525 -.8555 -.8720 -.4934 -.2187 -.1399  
.968 -.6751 -.8683 -.7933 -.4575 -.2433 -.2035

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK17)

ALPHA ( 3 ) = 4.010 BETA ( 2 ) = -3.866 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6207 -.6071 -.7142 -.6564 -.2464 -.0909  
 .757 -.5999 -.6168 -.7398 -.5539 .0000 -.0952  
 .805 -.6026 -.6466 -.7766 -.5334 -.2342 -.1143  
 .897 -.6028 -.7282 -.8115 -.4930 -.2156 -.1204  
 .968 -.6257 -.7956 -.8784 -.4244 -.2132 -.1528

ALPHA ( 3 ) = 4.008 BETA ( 3 ) = .197 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6214 -.6163 -.7126 -.6515 -.2912 -.1114  
 .757 -.5974 -.6195 -.7453 -.5840 .0000 -.0988  
 .805 -.5914 -.6520 -.7770 -.5428 -.2483 -.1033  
 .887 -.5007 -.7637 -.8020 -.5175 -.2347 -.1092  
 .968 -.6352 -.8293 -.7848 -.4486 -.2230 -.1286

ALPHA ( 3 ) = 4.011 BETA ( 4 ) = 4.242 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6275 -.6154 -.6990 -.6486 -.3098 -.1205  
 .757 -.6206 -.6246 -.7429 -.5653 .0000 -.1165  
 .805 -.6013 -.6455 -.7732 -.5587 -.2561 -.1169  
 .887 -.6023 -.7215 -.8047 -.5217 -.2542 -.1294  
 .968 -.6277 -.7849 -.7940 -.4498 -.2095 -.1445

ALPHA ( 3 ) = 4.014 BETA ( 5 ) = 8.290 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6558 -.6558 -.7293 -.6047 -.3314 -.1580  
 .757 -.6332 -.6537 -.7854 -.5848 .0000 -.1544  
 .805 -.6280 -.6839 -.7957 -.5836 -.3118 -.1518  
 .897 -.6477 -.7524 -.8165 -.5349 -.3018 -.1676  
 .968 -.6599 -.7825 -.7771 -.4704 -.2681 -.1927



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ALPHA ( 4 ) = 7.901 BETA ( 1 ) = -7.891 MACH = .59650 Q = 594.32 P = 2386.1 RV/L = 4.8187  
(XEBK17)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5689 -.5896 -.6339 -.4946 -.2379 -.2038  
.757 -.5463 -.5915 -.6532 -.4183 .0000 -.2052  
.805 -.5504 -.6367 -.6451 -.3923 -.2377 -.2129  
.887 -.5795 -.6927 -.6294 -.3732 -.2479 -.2194  
.958 -.6233 -.7294 -.5915 -.3608 -.2637 -.2315

ALPHA ( 4 ) = 7.913 BETA ( 2 ) = -3.864 MACH = .59650 Q = 594.32 P = 2386.1 RV/L = 4.8187

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5843 -.5855 -.7007 -.5913 -.1999 -.1026  
.757 -.5552 -.6014 -.7191 -.5161 .0000 -.1135  
.805 -.5605 -.6276 -.7625 -.4756 -.1899 -.1205  
.887 -.5717 -.7521 -.7747 -.4367 -.1879 -.1345  
.958 -.5969 -.8134 -.7344 -.4026 -.2015 -.1594

ALPHA ( 4 ) = 7.919 BETA ( 3 ) = .190 MACH = .59650 Q = 594.32 P = 2386.1 RV/L = 4.8187

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.6196 -.6089 -.7122 -.6262 -.2734 -.0994  
.757 -.5920 -.6176 -.7562 -.5555 .0000 -.0975  
.805 -.5927 -.6449 -.8007 -.5386 -.2217 -.0875  
.887 -.6039 -.7500 -.8077 -.4882 -.2206 -.1053  
.958 -.6302 -.8335 -.7824 -.4258 -.1951 -.1259

ALPHA ( 4 ) = 7.918 BETA ( 4 ) = 4.240 MACH = .59650 Q = 594.32 P = 2386.1 RV/L = 4.8187

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5971 -.5995 -.6902 -.5611 -.2313 -.1150  
.757 -.5724 -.6044 -.7389 -.4955 .0000 -.1219  
.805 -.5724 -.6469 -.7627 -.4917 -.2042 -.1236  
.887 -.5347 -.6575 -.7707 -.4752 -.2132 -.1371  
.958 -.6348 -.7970 -.7232 -.3907 -.2004 -.1636

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 1404/B/C/R ORB SPEED BRAKE

1XEBK177)

ALPHA ( 4 ) = 7.914 BETA ( 5 ) = 8.294 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5820 -.6000 -.6528 -.4636 -.2743 -.1749  
 .757 -.5661 -.6066 -.6923 -.4728 .0000 -.1847  
 .805 -.5713 -.6573 -.6923 -.4702 -.2567 -.1890  
 .887 -.6057 -.7258 -.6811 -.4438 -.2662 -.2167  
 .958 -.6478 -.7247 -.6117 -.3877 -.2634 -.2297

ALPHA ( 5 ) = 11.926 BETA ( 1 ) = -7.855 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5472 -.5363 -.5875 -.4965 -.2743 -.2141  
 .757 -.5292 -.5577 -.6035 -.4418 .0000 -.2291  
 .805 -.5276 -.5970 -.6154 -.4225 -.2631 -.2160  
 .887 -.5520 -.6544 -.6159 -.4144 -.2693 -.2234  
 .958 -.5719 -.6675 -.5655 -.4025 -.2724 -.2421

ALPHA ( 5 ) = 11.949 BETA ( 2 ) = -3.840 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5814 -.5833 -.6739 -.5712 -.2178 -.1156  
 .757 -.5653 -.5912 -.7057 -.4905 .0000 -.1216  
 .805 -.5624 -.6125 -.7277 -.4867 -.2009 -.1330  
 .887 -.5662 -.7202 -.7508 -.4293 -.2080 -.1446  
 .968 -.6011 -.7572 -.7103 -.3874 -.2213 -.1704

ALPHA ( 5 ) = 11.954 BETA ( 3 ) = .189 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5174 -.5112 -.7081 -.6260 -.2694 -.0883  
 .757 -.5979 -.6172 -.7496 -.5559 .0000 -.0819  
 .805 -.5932 -.6595 -.7746 -.5337 -.2396 -.0871  
 .887 -.6252 -.7545 -.8089 -.4848 -.2026 -.1029  
 .958 -.6326 -.8311 -.7847 -.4339 -.1993 -.1183

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.952 BETA ( 4 ) = 4.250 MACH = .59628 0 = 593.97 P = 2386.5 RN/L = 4.8170  
(XEBK17)

SECTION ( UPRIGHT HAWD INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.709 -.5930 -.5849 -.7129 -.5556 -.2452 -.1347  
.757 -.5513 -.6049 -.7337 -.4953 -.0000 -.1340  
.805 -.5125 -.5526 -.7518 -.4735 -.2249 -.1476  
.837 -.6025 -.7534 -.7800 -.4425 -.2218 -.1502  
.963 -.6542 -.7956 -.7284 -.3604 -.2084 -.1834

ALPHA ( 5 ) = 11.942 BETA ( 5 ) = 8.320 MACH = .59628 0 = 593.97 P = 2386.5 RN/L = 4.8170

SECTION ( UPRIGHT HAWD INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5679 -.5708 -.6095 -.4506 -.2783 -.2079  
.757 -.5478 -.6233 -.6109 -.4244 .0000 -.2132  
.805 -.5555 -.6214 -.6088 -.4089 -.2764 -.2170  
.837 -.6082 -.6770 -.6219 -.4097 -.2814 -.2236  
.963 -.6526 -.6689 -.5291 -.3530 -.2688 -.2343

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK18) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRPF = 935.0630 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -.4050 BETA ( 1 ) = -3.854 MACH = 1.3965 0 = 599.95 P = 439.47 RN/L = 2.9144

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.2316 -.2259 -.1969 -.2753 -.2665 -.2653  
 .757 -.2397 -.2254 -.2045 -.2651 -.2651 -.2525  
 .805 -.2376 -.2344 -.2135 -.2661 -.2661 -.2461  
 .857 -.2435 -.2312 -.2301 -.2712 -.2686 -.2460  
 .908 -.2466 -.2306 -.2275 -.2666 -.2969 -.2989

ALPHA ( 2 ) = -.4042 BETA ( 2 ) = .192 MACH = 1.3965 0 = 599.95 P = 439.47 RN/L = 2.9144

## SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.2324 -.2291 -.2308 -.2578 -.2448 -.2367  
 .757 -.2410 -.2326 -.2339 -.2548 -.2441 -.2306  
 .805 -.2407 -.2345 -.2394 -.2545 -.2441 -.2266  
 .857 -.2540 -.2471 -.2495 -.2609 -.2467 -.2262  
 .908 -.2931 -.2824 -.2370 -.2821 -.2856 -.2899

ALPHA ( 3 ) = -.4051 BETA ( 3 ) = 4.285 MACH = 1.3965 0 = 599.95 P = 439.47 RN/L = 2.9144

## SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.2370 -.2420 -.2502 -.2369 -.2288 -.2265  
 .757 -.2513 -.2449 -.2499 -.2383 -.2383 -.2238  
 .805 -.2504 -.2475 -.2511 -.2383 -.2312 -.2210  
 .857 -.2561 -.2593 -.2554 -.2471 -.2338 -.2219  
 .908 -.2949 -.2850 -.2318 -.2309 -.2725 -.2812

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK18)

ALPHA ( 2 ) = -.030 BETA ( 1 ) = -3.874 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2350	-.2322	-.2234	-.3050	-.2972	-.2936
.757	-.2465	-.2350	-.2322	-.2962	.0000	-.2815
.805	-.2462	-.2353	-.2390	-.2946	-.2965	-.2749
.857	-.2518	-.2500	-.2587	-.3017	-.2969	-.2778
.908	-.2595	-.3254	-.3491	-.3520	-.3226	-.3264

ALPHA ( 2 ) = -.025 BETA ( 2 ) = .186 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2370	-.2484	-.2530	-.2838	-.2719	-.2636
.757	-.2534	-.2505	-.2561	-.2809	.0000	-.2577
.805	-.2565	-.2551	-.2610	-.2800	-.2715	-.2532
.857	-.2701	-.2660	-.2724	-.2864	-.2738	-.2524
.908	-.3350	-.3458	-.3627	-.3447	-.3094	-.3116

ALPHA ( 2 ) = -.030 BETA ( 3 ) = 4.265 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2426	-.2524	-.2721	-.2572	-.2536	-.2531
.757	-.2615	-.2641	-.2726	-.2598	.0000	-.2505
.805	-.2653	-.2691	-.2736	-.2615	-.2555	-.2489
.857	-.2765	-.2827	-.2767	-.2707	-.2603	-.2513
.908	-.3103	-.3446	-.3541	-.3339	-.2983	-.3087

ALPHA ( 3 ) = 3.919 BETA ( 1 ) = -3.877 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2485	-.2576	-.2605	-.3377	-.3289	-.3234
.757	-.2628	-.2602	-.2655	-.3277	.0000	-.3113
.805	-.2640	-.2609	-.2731	-.3258	-.3268	-.3047
.857	-.2674	-.2644	-.2694	-.3318	-.3268	-.3082
.908	-.3062	-.3330	-.3564	-.3776	-.3503	-.3520

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK18)

ALPHA ( 3 ) = 3.922 BETA ( 2 ) = .185 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2450	-.2591	-.2775	-.3109	-.3002	-.2924
.757	-.2557	-.2722	-.2798	-.3067	.0000	-.2870
.805	-.2695	-.2755	-.2853	-.3067	-.2998	-.2829
.857	-.2823	-.2573	-.2957	-.3124	-.3012	-.2852
.909	-.3108	-.3556	-.3836	-.3677	-.3328	-.3407

ALPHA ( 3 ) = 3.923 BETA ( 3 ) = 4.255 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2535	-.2823	-.3041	-.2839	-.2794	-.2799
.757	-.2759	-.2924	-.3036	-.2882	.0000	-.2799
.805	-.2836	-.2567	-.3036	-.2897	-.2823	-.2775
.857	-.2981	-.3075	-.3060	-.2958	-.2866	-.2792
.909	-.3250	-.3535	-.3706	-.3563	-.3238	-.3337

ALPHA ( 4 ) = 7.792 BETA ( 1 ) = -3.867 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2657	-.2928	-.2846	-.3558	-.3575	-.3506
.757	-.2831	-.2978	-.2891	-.3549	.0000	-.3385
.805	-.2979	-.2873	-.2986	-.3530	-.3558	-.3323
.857	-.2985	-.2959	-.3131	-.3577	-.3549	-.3311
.909	-.3283	-.3459	-.3838	-.3995	-.3753	-.3747

ALPHA ( 4 ) = 7.791 BETA ( 2 ) = .182 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2592	-.2947	-.3032	-.3326	-.3238	-.3176
.757	-.2813	-.2992	-.3055	-.3302	.0000	-.3129
.805	-.2906	-.3011	-.3056	-.3300	-.3245	-.3089
.857	-.3028	-.3103	-.3202	-.3359	-.3250	-.3091
.909	-.3240	-.3571	-.3974	-.3965	-.3540	-.3598

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(XEBK18)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 4 ) = 7.919 BETA ( 3 ) = 4.252 MACH = 1.3956 Q = 599.84 P = 439.94 RV/L = 2.9129

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.2630 -.3092 -.3330 -.3085 -.3004 -.3023  
 .757 -.2894 -.3130 -.3308 -.3128 .0000 -.3021  
 .805 -.3004 -.3175 -.3292 -.3133 -.3047 -.3014  
 .887 -.3163 -.3306 -.3301 -.3194 -.3083 -.3054  
 .968 -.3456 -.3645 -.3835 -.3714 -.3427 -.3565

ALPHA ( 5 ) = 11.807 BETA ( 1 ) = -3.848 MACH = 1.3965 Q = 599.65 P = 439.24 RV/L = 2.9163

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.2685 -.2882 -.2930 -.3841 -.3758 -.3692  
 .757 -.2889 -.2894 -.2991 -.3720 .0000 -.3582  
 .805 -.2911 -.2942 -.3077 -.3696 -.3730 -.3521  
 .887 -.3054 -.3039 -.3243 -.3741 -.3732 -.3502  
 .968 -.3344 -.3543 -.3879 -.4105 -.3912 -.3895

ALPHA ( 5 ) = 11.815 BETA ( 2 ) = .187 MACH = 1.3965 Q = 599.65 P = 439.24 RV/L = 2.9163

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.2771 -.3205 -.3307 -.3587 -.3511 -.3449  
 .757 -.3017 -.3219 -.3343 -.3561 .0000 -.3400  
 .805 -.3103 -.3255 -.3371 -.3556 -.3499 -.3362  
 .887 -.3243 -.3376 -.3464 -.3616 -.3514 -.3369  
 .968 -.3445 -.3569 -.3664 -.3805 -.3782 -.3650

ALPHA ( 5 ) = 11.810 BETA ( 3 ) = 4.268 MACH = 1.3965 Q = 599.65 P = 439.24 RV/L = 2.9163

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.2800 -.3270 -.3526 -.3291 -.3217 -.3229  
 .757 -.3067 -.3208 -.3524 -.3305 .0000 -.3236  
 .805 -.3177 -.3372 -.3498 -.3324 -.3251 -.3224  
 .887 -.3330 -.3495 -.3579 -.3579 -.3285 -.3277  
 .968 -.3511 -.3532 -.3580 -.3580 -.3605 -.3770

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK18)

ALPHA ( 6 ) = 15.906 BETA ( 1 ) = -3.833 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2917	-.3124	-.3175	-.3997	-.3918	-.3928
.757	-.3103	-.3145	-.3216	-.3902	.0000	-.3717
.805	-.3153	-.3169	-.3292	-.3881	-.3888	-.3557
.887	-.3267	-.3293	-.3453	-.3911	-.3873	-.3667
.968	-.3562	-.3805	-.4123	-.4303	-.4061	-.4036

ALPHA ( 6 ) = 15.920 BETA ( 2 ) = .184 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2967	-.3391	-.3502	-.3761	-.3700	-.3640
.757	-.3215	-.3415	-.3521	-.3745	.0000	-.3595
.805	-.3315	-.3463	-.3564	-.3745	-.3700	-.3566
.887	-.3480	-.3618	-.3654	-.3797	-.3709	-.3620
.968	-.3699	-.4158	-.4362	-.4255	-.3958	-.4056

ALPHA ( 6 ) = 15.910 BETA ( 3 ) = 4.299 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3034	-.3456	-.3678	-.3483	-.3381	-.3400
.757	-.3289	-.3434	-.3654	-.3483	.0000	-.3393
.805	-.3384	-.3549	-.3657	-.3507	-.3417	-.3393
.887	-.3549	-.3659	-.3673	-.3550	-.3462	-.3416
.968	-.3795	-.4049	-.4245	-.4077	-.3768	-.3909



REFERENCE DATA

SREF = 2690.0000 SQ.FT.    XMRP = 1076.6800 IN. XO    RUDDER = .000    SPOBRK = .000  
 LREF = 474.6000 IN.    YMRP = .0000 IN. YO    BDFLAP = -11.700    L-ELVN = .000  
 BREF = 936.0680 IN.    ZMRP = 375.0000 IN. ZO    R-ELVN = .000    MACH = 1.250  
 SCALE = .0300

PARAMETRIC DATA

ALPHA ( 1 ) = -4.048    BETA ( 1 ) = -3.848    MACH = 1.2478    Q = 600.12    P = 550.64    RN/L = 3.0180

SECTION ( 1 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/BV    .3170    .4120    .5070    .6020    .6970    .7920

X/CV

.708    -.2777    -.2913    -.2935    -.3906    -.3861    -.3842  
 .757    -.2948    -.2927    -.2994    -.3794    -.0000    -.3775  
 .805    -.2958    -.2943    -.3086    -.3775    -.3865    -.3730  
 .887    -.3055    -.3077    -.3289    -.3870    -.3901    -.3757  
 .968    -.3370    -.3659    -.4131    -.4447    -.4197    -.4311

ALPHA ( 1 ) = -3.974    BETA ( 2 ) = .192    MACH = 1.2478    Q = 600.12    P = 550.64    RN/L = 3.0180

SECTION ( 1 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/BV    .3170    .4120    .5070    .6020    .6970    .7920

X/CV

.708    -.2745    -.3093    -.3191    -.3822    -.3713    -.3656  
 .757    -.2993    -.3119    -.3234    -.3761    -.0000    -.3583  
 .805    -.3062    -.3162    -.3302    -.3749    -.3716    -.3526  
 .887    -.3186    -.3289    -.3481    -.3844    -.3746    -.3539  
 .968    -.3455    -.4043    -.4710    -.4537    -.4129    -.4202

ALPHA ( 1 ) = -3.984    BETA ( 3 ) = 4.283    MACH = 1.2478    Q = 600.12    P = 550.64    RN/L = 3.0180

SECTION ( 1 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/BV    .3170    .4120    .5070    .6020    .6970    .7920

X/CV

.708    -.2864    -.3313    -.3438    -.3506    -.3604    -.3578  
 .757    -.3135    -.3335    -.3440    -.3604    -.0000    -.3545  
 .805    -.3213    -.3373    -.3476    -.3618    -.3618    -.3507  
 .887    -.3309    -.3454    -.3552    -.3696    -.3651    -.3502  
 .968    -.3506    -.3382    -.4215    -.4282    -.3995    -.4096

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK19)  
 ALPHA ( 2 ) = -.051 BETA ( 1 ) = -3.861 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.2813 -.3192 -.3284 -.4238 -.4155 -.4136  
 .757 -.3070 -.3215 -.3334 -.4120 .0000 -.4044  
 .805 -.3134 -.3237 -.3407 -.4089 -.4155 -.3991  
 .887 -.3268 -.3343 -.3597 -.4162 -.4172 -.4005  
 .968 -.3513 -.3593 -.4196 -.4609 -.4447 -.4516

ALPHA ( 2 ) = -.007 BETA ( 2 ) = .182 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.2787 -.3328 -.3490 -.4103 -.4019 -.3955  
 .757 -.3073 -.3359 -.3523 -.4041 .0000 -.3886  
 .805 -.3190 -.3400 -.3592 -.4031 -.4017 -.3832  
 .887 -.3333 -.3505 -.3751 -.4126 -.4043 -.3843  
 .968 -.3512 -.3938 -.4675 -.4806 -.4404 -.4438

ALPHA ( 2 ) = -.013 BETA ( 3 ) = 4.263 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.2863 -.3520 -.3666 -.3865 -.3848 -.3839  
 .757 -.3167 -.3539 -.3578 -.3846 .0000 -.3813  
 .805 -.3315 -.3579 -.3716 -.3853 -.3853 -.3782  
 .887 -.3445 -.3703 -.3768 -.3922 -.3893 -.3834  
 .968 -.3665 -.3931 -.4235 -.4432 -.4232 -.4388

ALPHA ( 3 ) = 3.859 BETA ( 1 ) = -3.873 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.2907 -.3448 -.3552 -.4550 -.4451 -.4422  
 .757 -.3181 -.3467 -.3599 -.4408 .0000 -.4320  
 .805 -.3324 -.3483 -.3673 -.4377 -.4455 -.4261  
 .887 -.3483 -.3593 -.3846 -.4415 -.4448 -.4260  
 .968 -.3755 -.3842 -.4209 -.4652 -.4645 -.4719

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK19)

ALPHA ( 3 ) = 3.906 BETA ( 2 ) = .178 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2944 -.3566 -.3736 -.4314 -.4243 -.4182  
 .757 -.3261 -.3597 -.3769 -.4255 .0000 -.4118  
 .805 -.3387 -.3639 -.3814 -.4246 -.4243 -.4077  
 .887 -.3516 -.3716 -.3952 -.4319 -.4264 -.4101  
 .968 -.3613 -.3925 -.4613 -.4911 -.4599 -.4664

ALPHA ( 3 ) = 3.928 BETA ( 3 ) = 4.253 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2983 -.3732 -.3999 -.4475 -.4094 -.4098  
 .757 -.3345 -.3811 -.4006 -.4075 .0000 -.4086  
 .805 -.3500 -.3664 -.4006 -.4084 -.4117 -.4058  
 .887 -.3709 -.3914 -.4041 -.4148 -.4151 -.4055  
 .968 -.3940 -.4007 -.4264 -.4516 -.4459 -.4572

ALPHA ( 4 ) = 7.851 BETA ( 1 ) = -3.877 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3264 -.3562 -.3689 -.4784 -.4732 -.4666  
 .757 -.3343 -.3581 -.3727 -.4635 .0000 -.4561  
 .805 -.3433 -.3633 -.3822 -.4587 -.4704 -.4500  
 .887 -.3604 -.3699 -.3935 -.4609 -.4689 -.4459  
 .968 -.3811 -.3932 -.4213 -.4706 -.4808 -.4858

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = .182 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3060 -.3798 -.4005 -.4569 -.4505 -.4446  
 .757 -.3398 -.3817 -.4021 -.4508 .0000 -.4389  
 .805 -.3555 -.3865 -.4069 -.4486 -.4503 -.4344  
 .887 -.3705 -.3749 -.4168 -.4546 -.4517 -.4371  
 .968 -.3784 -.3260 -.4579 -.4937 -.4826 -.4899

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ALPHA ( 4 ) = 7.972 BETA ( 3 ) = 4.253 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223  
(XEBK19)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3179 -.4011 -.4255 -.4300 -.4300 -.4324  
.757 -.3509 -.4039 -.4255 -.4300 .0000 -.4312  
.805 -.3704 -.4096 -.4257 -.4305 -.4324 -.4295  
.887 -.3897 -.4189 -.4262 -.4338 -.4357 -.4336  
.968 -.4070 -.4241 -.4338 -.4587 -.4608 -.4809

ALPHA ( 5 ) = 11.905 BETA ( 1 ) = -3.844 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3137 -.3579 -.3784 -.4970 -.4906 -.4849  
.757 -.3420 -.3681 -.3831 -.4790 .0000 -.4738  
.805 -.3543 -.3717 -.3921 -.4747 -.4875 -.4667  
.887 -.3703 -.3837 -.4096 -.4755 -.4852 -.4673  
.968 -.3905 -.4120 -.4302 -.4769 -.4927 -.5013

ALPHA ( 5 ) = 11.915 BETA ( 2 ) = .187 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3200 -.4001 -.4185 -.4723 -.4694 -.4644  
.757 -.3554 -.4027 -.4218 -.4671 .0000 -.4592  
.805 -.3733 -.4090 -.4261 -.4652 -.4697 -.4554  
.887 -.3913 -.4126 -.4360 -.4715 -.4715 -.4577  
.968 -.4004 -.4126 -.4673 -.5097 -.4990 -.5071

ALPHA ( 5 ) = 11.907 BETA ( 3 ) = 4.269 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3243 -.4141 -.4417 -.4398 -.4457 -.4490  
.757 -.3550 -.4181 -.4407 -.4412 .0000 -.4492  
.805 -.3824 -.4262 -.4400 -.4421 -.4490 -.4485  
.887 -.4026 -.4356 -.4407 -.4471 -.4519 -.4542  
.968 -.4193 -.4407 -.4455 -.4647 -.4730 -.4977

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(XEBK20) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0583 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
 BOFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.047 BETA ( 1 ) = -3.843 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3345 -.4155 -.4392 -.5575 -.5841 -.5547  
 .757 -.3684 -.4154 -.4408 -.5424 .0000 -.5436  
 .805 -.3850 -.4231 -.4515 -.5381 -.5585 -.5355  
 .857 -.4019 -.4271 -.4645 -.5391 -.5556 -.5390  
 .908 -.4076 -.4114 -.4389 -.5284 -.5615 -.5929

ALPHA ( 2 ) = -3.971 BETA ( 2 ) = .189 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3325 -.4374 -.4659 -.5608 -.5523 -.5475  
 .757 -.3710 -.4398 -.4693 -.5478 .0000 -.5397  
 .805 -.3957 -.4460 -.4750 -.5449 -.5525 -.5319  
 .857 -.4139 -.4509 -.4687 -.5535 -.5570 -.5363  
 .909 -.4087 -.4276 -.4381 -.5093 -.5055 -.5041

ALPHA ( 3 ) = -3.998 BETA ( 3 ) = 4.285 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3433 -.4659 -.4925 -.5459 -.5455 -.5431  
 .757 -.3850 -.4684 -.4930 -.5374 .0000 -.5366  
 .805 -.4116 -.4721 -.4933 -.5377 -.5439 -.5341  
 .857 -.4306 -.4729 -.4973 -.5310 -.5433 -.5339  
 .908 -.4299 -.4292 -.4531 -.5204 -.5530 -.5841

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK20)

ALPHA ( 2 ) = -.035 BETA ( 1 ) = -3.867 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3340	-.4500	-.4773	-.6002	-.5900	-.5850
.757	-.3768	-.4514	-.4792	-.5788	.0000	-.5755
.805	-.4015	-.4559	-.4951	-.5717	-.5857	-.5670
.897	-.4250	-.4558	-.4974	-.5616	-.5788	-.5615
.958	-.4284	-.4772	-.4489	-.5140	-.5599	-.5895

ALPHA ( 2 ) = -.059 BETA ( 2 ) = .183 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3289	-.4550	-.4907	-.5834	-.5759	-.5721
.757	-.3721	-.4574	-.4926	-.5697	.0000	-.5647
.805	-.3999	-.4640	-.4971	-.5633	-.5749	-.5579
.897	-.4225	-.4666	-.5044	-.5619	-.5749	-.5596
.958	-.4132	-.4758	-.4561	-.5491	-.5962	-.6258

ALPHA ( 2 ) = -.052 BETA ( 3 ) = 4.261 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3427	-.4905	-.5288	-.5751	-.5753	-.5736
.757	-.3934	-.4922	-.5274	-.5677	.0000	-.5687
.805	-.4209	-.4984	-.5288	-.5632	-.5715	-.5637
.897	-.4459	-.4924	-.5281	-.5575	-.5687	-.5524
.958	-.4472	-.4310	-.4334	-.5156	-.5592	-.5837

ALPHA ( 3 ) = 3.856 BETA ( 1 ) = -3.869 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3302	-.4702	-.5035	-.6225	-.6111	-.6059
.757	-.3781	-.4725	-.5055	-.6086	.0000	-.5950
.805	-.4076	-.4735	-.5134	-.5929	-.6042	-.5863
.897	-.4375	-.4934	-.5333	-.5813	-.5957	-.5849
.958	-.4450	-.4459	-.4694	-.5153	-.5605	-.5780

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.924 BETA ( 2 ) = .189 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838  
 (XEBK20)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3324 -.4754 -.5171 -.6042 -.5966 -.5945  
 .757 -.3782 -.4775 -.5166 -.5897 -.0000 -.5857  
 .805 -.4098 -.4832 -.5199 -.5829 -.5938 -.5796  
 .887 -.4352 -.4884 -.5212 -.5729 -.5890 -.5838  
 .958 -.4486 -.4427 -.4501 -.5213 -.5796 -.6206

ALPHA ( 3 ) = 3.921 BETA ( 3 ) = 4.251 MACH = 1.1013 Q = 601.26 P = 708.16 RN/L = 3.1838

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3399 -.5050 -.5531 -.5950 -.5929 -.5917  
 .757 -.3989 -.5052 -.5512 -.5875 -.0000 -.5825  
 .805 -.4236 -.5124 -.5498 -.5822 -.5853 -.5780  
 .887 -.4550 -.5177 -.5486 -.5730 -.5820 -.5774  
 .958 -.4617 -.4655 -.4747 -.5147 -.5555 -.5843

ALPHA ( 4 ) = 7.863 BETA ( 1 ) = -3.864 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3419 -.4862 -.5172 -.6498 -.6408 -.6337  
 .757 -.3922 -.4867 -.5215 -.6275 -.0000 -.6185  
 .805 -.4203 -.4953 -.5279 -.6192 -.6318 -.6062  
 .887 -.4517 -.4948 -.5395 -.6057 -.6209 -.5946  
 .958 -.4546 -.4493 -.4812 -.5274 -.5744 -.5551

ALPHA ( 4 ) = 7.865 BETA ( 2 ) = .180 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3352 -.4979 -.5456 -.6299 -.6204 -.6174  
 .757 -.3872 -.4927 -.5451 -.6148 -.0000 -.6079  
 .805 -.4243 -.5059 -.5475 -.6069 -.6150 -.6010  
 .887 -.4541 -.5191 -.5484 -.5911 -.6062 -.6084  
 .958 -.4479 -.4459 -.4555 -.5108 -.5648 -.6015

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = 7.863 BETA ( 3 ) = 4.247 MACH = 1.1008 Q = 600.53 P (XEBK20)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP RN/L = 707.91 RN/L = 3.1857

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3569	-.5240	-.5759	-.6052	-.6071	-.6041
.757	-.4088	-.5264	-.5725	-.6007	.0000	-.6010
.805	-.4438	-.5340	-.5718	-.5965	-.6038	-.5958
.897	-.4762	-.5383	-.5676	-.5841	-.5979	-.5827
.968	-.4752	-.4801	-.4924	-.5202	-.5583	-.5452

ALPHA ( 5 ) = 11.903 BETA ( 1 ) = -3.846 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3617	-.5024	-.5341	-.6679	-.6603	-.6524
.757	-.4069	-.5028	-.5362	-.6465	.0000	-.6330
.805	-.4395	-.5083	-.5426	-.6370	-.6508	-.6214
.887	-.4657	-.5139	-.5554	-.6254	-.6392	-.6169
.968	-.4640	-.4639	-.4954	-.5462	-.5929	-.5679

ALPHA ( 5 ) = 11.911 BETA ( 2 ) = .188 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3547	-.5142	-.5625	-.6326	-.6316	-.6290
.757	-.4049	-.5164	-.5613	-.6219	.0000	-.6224
.805	-.4417	-.5247	-.5632	-.6136	-.6247	-.6160
.887	-.4729	-.5310	-.5632	-.6011	-.6155	-.6168
.968	-.4695	-.4590	-.4633	-.5159	-.5654	-.5897

ALPHA ( 5 ) = 11.905 BETA ( 3 ) = 4.263 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3707	-.5445	-.5961	-.6044	-.6082	-.6151
.757	-.4214	-.5439	-.5897	-.5954	.0000	-.6078
.805	-.4502	-.5505	-.5859	-.5942	-.6104	-.6042
.887	-.4745	-.5539	-.5785	-.5837	-.6056	-.6008
.968	-.4901	-.4995	-.5018	-.5359	-.5698	-.5602



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK21) ( 13 AUG 75 )

## REFERENCE DATA

XREF = 2690.0000 SC.FT. XMRP = 1076.6800 IN. XO  
 YREF = 474.9000 IN. YMRP = .0000 IN. YO  
 ZREF = 935.5590 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -3.849 MACH = .90000 0 = 600.22 P = 1058.5 RN/L = 3.5693  
 SECTION 1 UPRIGHT HAND INSIDE

## DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.709 -.2802 -.5064 -.6558 -.6177 -.5099 -.4052  
 .757 -.2513 -.5555 -.6549 -.6108 -.0000 -.4074  
 .805 -.4256 -.5321 -.6404 -.5867 -.4713 -.3974  
 .857 -.4549 -.5555 -.6053 -.5390 -.4434 -.3726  
 .909 -.3551 -.2918 -.2607 -.3569 -.3958 -.2776

ALPHA ( 2 ) = -4.030 BETA ( 2 ) = .192 MACH = .90000 0 = 600.22 P = 1058.5 RN/L = 3.5693  
 SECTION 2 UPRIGHT HAND INSIDE

## DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.709 -.2909 -.6171 -.7009 -.8020 -.7023 -.6096  
 .757 -.3770 -.6147 -.6949 -.7704 -.0000 -.5816  
 .805 -.4360 -.6226 -.6892 -.7446 -.6476 -.5591  
 .857 -.4750 -.5984 -.6743 -.7030 -.6237 -.5368  
 .909 -.3765 -.2911 -.3039 -.4695 -.5676 -.4188

ALPHA ( 3 ) = -4.042 BETA ( 3 ) = 4.289 MACH = .90000 0 = 600.22 P = 1058.5 RN/L = 3.5693  
 SECTION 3 UPRIGHT HAND INSIDE

## DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.709 -.3224 -.5726 -.6397 -.8429 -.8353 -.7751  
 .757 -.3567 -.5726 -.6337 -.9109 -.0000 -.6627  
 .805 -.4245 -.5771 -.6276 -.7945 -.7789 -.6169  
 .857 -.4533 -.5673 -.6375 -.7691 -.7374 -.5957  
 .909 -.3909 -.3113 -.3101 -.5359 -.6584 -.4503

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK21)

ALPHA ( 2 ) = .024 BETA ( 1 ) = -3.875 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2535	-.5043	-.6111	-.6104	-.5343	-.4406
.757	-.3297	-.5338	-.6023	-.6049	.0000	-.4458
.805	-.3913	-.5326	-.5904	-.5897	-.4962	-.4154
.857	-.4161	-.5342	-.5728	-.5457	-.4748	-.3999
.908	-.3478	-.3732	-.2655	-.3721	-.4330	-.2958

ALPHA ( 2 ) = .031 BETA ( 2 ) = .186 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2818	-.5675	-.6358	-.7662	-.6877	-.6002
.757	-.3564	-.5675	-.6254	-.7429	.0000	-.5657
.805	-.4137	-.5704	-.6280	-.7188	-.6344	-.5395
.857	-.4407	-.5524	-.6308	-.6829	-.6079	-.5164
.908	-.3549	-.2804	-.2321	-.4732	-.5507	-.4032

ALPHA ( 2 ) = .021 BETA ( 3 ) = 4.265 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2719	-.4724	-.5208	-.8267	-.8052	-.7510
.757	-.3277	-.4774	-.5291	-.7681	.0000	-.6528
.805	-.3699	-.4731	-.5447	-.7477	-.7567	-.6124
.857	-.3321	-.4686	-.5571	-.7366	-.7283	-.5799
.908	-.3430	-.2744	-.2819	-.5148	-.6620	-.4431

ALPHA ( 3 ) = 3.922 BETA ( 1 ) = -3.878 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.2412	-.4553	-.5497	-.5769	-.4980	-.3172
.757	-.2930	-.4597	-.5471	-.5690	.0000	-.3312
.805	-.3416	-.4681	-.5428	-.5521	-.4106	-.3422
.857	-.4131	-.4727	-.6130	-.5353	-.3877	-.3131
.908	-.3420	-.2973	-.2638	-.3360	-.3527	-.2361

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE  
 ALPHA ( 3 ) = 3.375 BETA ( 2 ) = .188 MACH = .89950 O = 599.38 P = 1058.3 RN/L = 3.5682

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z B. .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.2552 -.5020 -.5752 -.7120 -.6423 -.5730  
 .757 -.3263 -.5122 -.5721 -.6764 -.6000 -.5391  
 .825 -.3320 -.5013 -.5588 -.6527 -.5934 -.5142  
 .897 -.4708 -.4948 -.5543 -.6330 -.5757 -.4986  
 .959 -.3167 -.2533 -.2636 -.4299 -.5278 -.3795

ALPHA ( 3 ) = 3.372 BETA ( 3 ) = .4260 MACH = .89950 O = 599.38 P = 1058.3 RN/L = 3.5682

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z B. .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.2553 -.4714 -.5148 -.7792 -.7483 -.6755  
 .757 -.3195 -.4709 -.5220 -.7271 -.7000 -.5545  
 .825 -.3233 -.4702 -.5329 -.7096 -.6746 -.5055  
 .897 -.3933 -.4651 -.5453 -.6917 -.6384 -.4861  
 .959 -.3467 -.2332 -.2678 -.4915 -.5773 -.3637

ALPHA ( 4 ) = 7.325 BETA ( 1 ) = -3.870 MACH = .89943 O = 599.41 P = 1058.5 RN/L = 3.5684

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z B. .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.2798 -.4435 -.5297 -.5475 -.4441 -.3192  
 .757 -.2635 -.4458 -.5080 -.5299 -.4000 -.3202  
 .825 -.3372 -.4571 -.5068 -.5118 -.4055 -.3140  
 .897 -.3540 -.4537 -.4993 -.4991 -.3744 -.2928  
 .959 -.3155 -.2765 -.2470 -.3138 -.3297 -.2103

ALPHA ( 4 ) = 9.017 BETA ( 2 ) = .195 MACH = .89943 O = 599.41 P = 1058.5 RN/L = 3.5684

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z B. .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.2672 -.5052 -.5552 -.5802 -.6249 -.5585  
 .757 -.3311 -.4582 -.5035 -.5260 -.4000 -.3151  
 .825 -.3709 -.4735 -.5073 -.5149 -.4556 -.3497  
 .897 -.4002 -.4713 -.5048 -.5102 -.4540 -.3482  
 .959 -.3477 -.2745 -.2627 -.4079 -.5220 -.3563

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ALPHA (1) = 0.014 BETA (3) = 4.257 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5727

(XEBK21)

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z 8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2555	-.4573	-.4952	-.7143	-.6753	-.6088
.757	-.3174	-.4578	-.4971	-.6572	.0000	-.4976
.806	-.3559	-.4509	-.5047	-.5439	-.6266	-.4503
.855	-.3777	-.4477	-.5175	-.6328	-.5924	-.4253
.904	-.3933	-.4297	-.4828	-.4619	-.5197	-.3086

ALPHA (5) = 11.699 BETA (1) = -3.861 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z 8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2541	-.4271	-.5294	-.5540	-.4625	-.3173
.757	-.3179	-.4326	-.5140	-.5305	.0000	-.3076
.806	-.3750	-.4471	-.5026	-.5055	-.4279	-.3259
.855	-.4262	-.4402	-.4971	-.4843	-.4013	-.3126
.904	-.4713	-.4295	-.4622	-.3391	-.3460	-.2205

ALPHA (5) = 11.956 BETA (2) = .190 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z 8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2522	-.4431	-.5193	-.6902	-.6306	-.5672
.757	-.3229	-.4455	-.5174	-.6657	.0000	-.5274
.806	-.3831	-.4435	-.5395	-.6439	-.5910	-.5148
.855	-.4353	-.4467	-.5359	-.6137	-.5727	-.4873
.904	-.4829	-.4617	-.4758	-.4491	-.5423	-.3570

ALPHA (5) = 11.348 BETA (3) = 4.274 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z 8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2503	-.4302	-.4940	-.5441	-.6099	-.5460
.757	-.3108	-.4309	-.4940	-.6026	.0000	-.4463
.806	-.3629	-.4307	-.4943	-.5861	-.5444	-.4190
.855	-.4145	-.4304	-.4931	-.5716	-.5204	-.4426
.904	-.4620	-.4264	-.4693	-.4382	-.4908	-.3392

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK22) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. YMRP = 1076.6800 IN. XO  
 LREF = 474.3000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0600 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRX = .000  
 BDFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.045 BETA ( 1 ) = -7.856 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1358 -.2394 -.2350 -.3345 -.2899 -.2861  
 .757 -.1935 -.2444 -.2407 -.3167 .0000 -.2794  
 .805 -.2171 -.2444 -.2514 -.3031 -.2875 -.2759  
 .857 -.2124 -.2354 -.2495 -.2920 -.2834 -.2694  
 .909 -.1973 -.1497 -.1399 -.2035 -.2476 -.2094

ALPHA ( 2 ) = -3.970 BETA ( 2 ) = -3.843 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION ( 2 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2030 .0081 -.3339 -.3995 -.3419 -.3610  
 .757 -.2284 -.3056 -.3324 -.3971 .0000 -.3343  
 .805 -.2537 -.3081 -.3293 -.3731 -.3436 -.3193  
 .857 -.2533 -.2943 -.3335 -.3553 -.3372 -.3173  
 .909 -.1997 -.1448 -.1300 -.2375 -.3172 -.2279

ALPHA ( 3 ) = -3.957 BETA ( 3 ) = .189 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION ( 3 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2137 -.3455 -.3934 -.3680 -.3351 -.3625  
 .757 -.2498 -.3501 -.3954 -.3799 .0000 -.3363  
 .805 -.2724 -.3577 -.3944 -.3737 -.3439 -.3344  
 .857 -.2704 -.3405 -.3711 -.3499 -.3377 -.3211  
 .909 -.2149 -.1635 -.1531 -.2448 -.3282 -.2385

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK22)

ALPHA ( 1 ) = -3.965 BETA ( 4 ) = 4.271 MACH = .59680 Q = 594.79 P = 2385.6 PN/L = 4.8530

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2248 -.3419 -.3964 -.3278 -.2723 -.2925  
 .757 -.2521 -.3457 -.3902 -.3230 .0000 -.2771  
 .805 -.2780 -.3533 -.3726 -.3123 -.2668 -.2473  
 .887 -.2820 -.3380 -.3497 -.2890 -.2592 -.2118  
 .968 -.2222 -.1683 -.1496 -.1896 -.2297 -.1204

ALPHA ( 1 ) = -4.005 BETA ( 5 ) = 8.350 MACH = .59680 Q = 594.79 P = 2385.6 PN/L = 4.8530

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2154 -.2755 -.2800 -.2375 -.2373 -.2604  
 .757 -.2308 -.2691 -.2793 -.2418 .0000 -.2463  
 .805 -.2455 -.2729 -.2676 -.2397 -.2430 -.2330  
 .887 -.2396 -.2612 -.2576 -.2378 -.2397 -.2131  
 .968 -.2016 -.1614 -.1345 -.1748 -.2125 -.1546

ALPHA ( 2 ) = -.025 BETA ( 1 ) = -7.896 MACH = .59678 Q = 594.66 P = 2385.3 PN/L = 4.8568

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1703 -.1670 -.0548 -.3136 -.2976 -.2647  
 .757 -.1715 -.1772 -.0772 -.2640 .0000 -.2435  
 .805 -.1736 -.1360 -.1407 -.2545 -.2852 -.2375  
 .887 -.1560 -.1195 -.1266 -.2549 -.2623 -.2377  
 .968 -.1525 -.1103 -.0977 -.1769 -.2256 -.1830

ALPHA ( 2 ) = -.014 BETA ( 2 ) = -3.863 MACH = .59378 Q = 594.66 P = 2385.3 PN/L = 4.8568

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1951 -.3017 -.3207 -.3567 -.3317 -.3503  
 .757 -.2237 -.3021 -.3212 -.3455 .0000 -.3238  
 .805 -.2532 -.3052 -.3186 -.3434 -.3353 -.3090  
 .887 -.2579 -.2869 -.3097 -.3326 -.3303 -.3001  
 .968 -.2068 -.1507 -.1291 -.2279 -.3062 -.2122

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TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .070 BETA ( 3 ) = .189 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568  
(XEBK22)

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2130 -.3455 -.3941 -.3910 -.3241 -.3448  
.757 -.2515 -.3445 -.3856 -.3787 .0000 -.3205  
.805 -.2733 -.3512 -.3798 -.3641 -.3210 -.3126  
.897 -.2797 -.3343 -.3677 -.3448 -.3212 -.2990  
.958 -.2187 -.1667 -.1610 -.2361 -.3028 -.2171

ALPHA ( 2 ) = .063 BETA ( 4 ) = 4.250 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2173 -.3413 -.3390 -.3048 -.2605 -.2813  
.757 -.2550 -.3399 -.3806 -.3072 .0000 -.2634  
.805 -.2745 -.3492 -.3655 -.3005 -.2617 -.2446  
.887 -.2773 -.3353 -.3408 -.2834 -.2524 -.2206  
.958 -.2322 -.1792 -.1502 -.1893 -.2324 -.1404

ALPHA ( 2 ) = .058 BETA ( 5 ) = 8.310 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2128 -.2628 -.2801 -.2276 -.2283 -.2414  
.757 -.2256 -.2639 -.2768 -.2283 .0000 -.2402  
.805 -.2342 -.2533 -.2688 -.2309 -.2295 -.2247  
.897 -.2339 -.2503 -.2520 -.2240 -.2288 -.2142  
.958 -.2072 -.1705 -.1344 -.1698 -.2090 -.1559

ALPHA ( 3 ) = 3.933 BETA ( 1 ) = -7.911 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.1667 -.1615 -.0527 -.2689 -.2784 -.2584  
.757 -.1631 -.1470 -.0608 -.2283 .0000 -.2235  
.805 -.1643 -.1285 -.0817 -.2269 -.2608 -.2233  
.897 -.1124 -.1153 -.1142 -.2285 -.2449 -.2269  
.958 -.1518 -.1044 -.0902 -.1606 -.2095 -.1740

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(CA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK22)

ALPHA ( 3 ) = 3.935 BETA ( 2 ) = -3.856 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1919	-.2945	-.3186	-.3500	-.3074	-.3267
.757	-.2221	-.2912	-.3165	-.3466	.0000	-.2982
.805	-.2395	-.2957	-.3181	-.3331	-.3072	-.2872
.857	-.2479	-.2870	-.3086	-.3131	-.3020	-.2771
.908	-.2197	-.1620	-.1368	-.2131	-.2848	-.2019

ALPHA ( 3 ) = 3.935 BETA ( 3 ) = .172 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2127	-.3329	-.3754	-.3487	-.3048	-.3240
.757	-.2435	-.3236	-.3723	-.3475	.0000	-.3021
.805	-.2525	-.3334	-.3530	-.3389	-.2971	-.2931
.857	-.2697	-.3331	-.3499	-.3214	-.2867	-.2634
.908	-.2132	-.1637	-.1521	-.2153	-.2836	-.2059

ALPHA ( 3 ) = 4.025 BETA ( 4 ) = 4.240 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2131	-.3332	-.3692	-.2902	-.2478	-.2630
.757	-.2399	-.3341	-.3587	-.2892	.0000	-.2464
.805	-.2539	-.3375	-.3473	-.2830	-.2497	-.2359
.857	-.2725	-.3395	-.3178	-.2650	-.2457	-.2244
.908	-.2532	-.1917	-.1398	-.1788	-.2221	-.1569

ALPHA ( 3 ) = 4.030 BETA ( 5 ) = 8.292 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2020	-.2843	-.2669	-.2145	-.2155	-.2228
.757	-.2199	-.2819	-.2697	-.2119	.0000	-.2293
.805	-.2329	-.2801	-.2675	-.2141	-.2145	-.2169
.857	-.2521	-.2805	-.2365	-.2116	-.2150	-.2023
.908	-.2310	-.1667	-.11291	-.1535	-.1933	-.1492



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK22)

ALPHA ( 4 ) = 7.901 BETA ( 1 ) = -7.896 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1547 -.1571 -.0596 -.2244 -.2489 -.2325  
 .757 -.1593 -.1544 -.0576 -.1999 .0000 -.2134  
 .805 -.1597 -.1357 -.0900 -.1954 -.2410 -.2137  
 .857 -.1589 -.1217 -.1135 -.2039 -.2325 -.2150  
 .909 -.1736 -.1377 -.1107 -.1454 -.2023 -.1599

ALPHA ( 4 ) = 7.913 BETA ( 2 ) = -3.861 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1932 -.2251 -.2076 -.3434 -.2969 -.2969  
 .757 -.2155 -.2875 -.3102 -.3331 .0000 -.2745  
 .805 -.2359 -.2936 -.3040 -.3254 -.2824 -.2641  
 .857 -.2477 -.2789 -.3302 -.3300 -.2760 -.2503  
 .909 -.2165 -.1612 -.1307 -.1546 -.2515 -.1775

ALPHA ( 4 ) = 9.049 BETA ( 3 ) = .175 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2132 -.3129 -.3718 -.3378 -.2843 -.3057  
 .757 -.2379 -.3253 -.3544 -.3278 .0000 -.2624  
 .805 -.2592 -.3288 -.3526 -.3302 -.2793 -.2750  
 .857 -.2626 -.3310 -.3711 -.3355 -.2812 -.2704  
 .909 -.2199 -.1718 -.1530 -.2037 -.2519 -.1950

ALPHA ( 4 ) = 9.049 BETA ( 4 ) = 4.239 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2015 -.3160 -.3612 -.2695 -.2319 -.2542  
 .757 -.2306 -.3129 -.3547 -.2604 .0000 -.2339  
 .805 -.2572 -.3179 -.3312 -.2851 -.2742 -.2233  
 .857 -.2592 -.3171 -.3163 -.2649 -.2326 -.2199  
 .909 -.2457 -.2191 -.1434 -.1691 -.2133 -.1493

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK22)

ALPHA ( 5 ) = 12.027 BETA ( 4 ) = 4.252 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-B/ .3170 .4120 .5070 .6020 .6970 .7920

X/C/

.1979 -.3105 -.3656 -.2510 -.2198 -.2298  
 .2313 -.3112 -.3468 -.2508 .0000 -.2239  
 .2538 -.3187 -.3321 -.2486 -.2222 -.2141  
 .2619 -.3090 -.3016 -.2367 -.2127 -.2102  
 .2492 -.1592 -.1476 -.1585 -.1994 -.1429

ALPHA ( 5 ) = 12.070 BETA ( 5 ) = 9.324 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-B/ .3170 .4120 .5070 .6020 .6970 .7920

X/C/

.1954 -.2207 -.2441 -.1729 -.1911 -.2073  
 .2330 -.2174 -.2391 -.1667 .0000 -.2021  
 .2153 -.2259 -.2258 -.1854 -.2030 -.2002  
 .2151 -.2120 -.2125 -.1767 -.1973 -.2028  
 .2130 -.2233 -.1517 -.1353 -.1767 -.1715

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEEA23) ( 13 AUG 75 )

## REFERENCE DATA

CASE = 1000000 SQ.FT. XMRP = 1076.6800 IN. XO  
 CASE = 1000000 IN. YMRP = .0000 IN. YO  
 CASE = 335.0000 IN. ZMRP = 375.0000 IN. ZO  
 CASE = .0000

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -3.999 BETA ( 1 ) = -3.856 MACH = 1.3924 0 = 598.36 P = 440.89 RN/L = 2.9021  
 SECTION 1 : RIGHT HAND INSIDE

Z/EV .3170 .4120 .5070 .6020 .6970 .7920  
 V CO

.0000 .2330 .2314 .1986 .2582 .2629 .2584  
 .0000 .2443 .2235 .2053 .2605 .0000 .2458  
 .0000 .2441 .2240 .2159 .2603 .2615 .2394  
 .0000 .2442 .2241 .2162 .2677 .2629 .2470  
 .0000 .2445 .2245 .2165 .3236 .2913 .3015

ALPHA ( 2 ) = -3.926 BETA ( 2 ) = .190 MACH = 1.3924 0 = 598.36 P = 440.89 RN/L = 2.9021  
 SECTION 2 : RIGHT HAND INSIDE

Z/EV .3170 .4120 .5070 .6020 .6970 .7920  
 V CO

.0000 .2330 .2440 .2452 .2598 .2396 .2331  
 .0000 .2487 .2456 .2486 .2562 .0000 .2262  
 .0000 .2504 .2487 .2512 .2548 .2398 .2209  
 .0000 .2545 .2526 .2576 .2593 .2421 .2277  
 .0000 .2533 .2337 .2339 .2375 .2798 .2911

ALPHA ( 3 ) = -3.995 BETA ( 3 ) = 4.279 MACH = 1.3924 0 = 598.36 P = 440.89 RN/L = 2.9021  
 SECTION 3 : RIGHT HAND INSIDE

Z/EV .3170 .4120 .5070 .6020 .6970 .7920  
 V CO

.0000 .2438 .2533 .2617 .2468 .2320 .2318  
 .0000 .2610 .2697 .2619 .2427 .0000 .2283  
 .0000 .2631 .2631 .2612 .2437 .2347 .2247  
 .0000 .2623 .2620 .2634 .2498 .2384 .2249  
 .0000 .2621 .2620 .2637 .2310 .2728 .2822

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK23)

ALPHA ( 2 ) = .005 BETA ( 1 ) = -3.877 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.2421	-.2543	-.2261	-.3013	-.2948	-.2901
.757	-.2571	-.2528	-.2375	-.2929	.0000	-.2756
.785	-.2595	-.2507	-.2444	-.2922	-.2684	
.817	-.2665	-.2504	-.2611	-.2989	-.2937	-.2716
.853	-.3001	-.3305	-.3539	-.3329	-.3196	-.3220

ALPHA ( 2 ) = .011 BETA ( 2 ) = .183 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.2375	-.2239	-.2707	-.2824	-.2633	-.2581
.757	-.2589	-.2661	-.2731	-.2812	.0000	-.2507
.785	-.2651	-.2634	-.2752	-.2797	-.2645	-.2467
.817	-.2813	-.2857	-.2828	-.2831	-.2657	-.2523
.853	-.3114	-.3566	-.3551	-.3399	-.3016	-.3125

ALPHA ( 2 ) = .023 BETA ( 3 ) = 4.256 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9066

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.2495	-.2811	-.2933	-.2623	-.2561	-.2563
.757	-.2718	-.2549	-.2929	-.2651	.0000	-.2549
.785	-.2785	-.2583	-.2910	-.2568	-.2582	-.2523
.817	-.2907	-.2376	-.2919	-.2729	-.2623	-.2514
.853	-.3218	-.3547	-.3628	-.3341	-.2986	-.3065

ALPHA ( 3 ) = 3.925 BETA ( 1 ) = -3.879 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.2545	-.2743	-.2484	-.3320	-.3233	-.3190
.757	-.2720	-.2722	-.2585	-.3225	.0000	-.3057
.785	-.2780	-.2718	-.2570	-.3223	-.3225	-.2993
.817	-.2927	-.2768	-.2824	-.3268	-.3235	-.3014
.853	-.3141	-.3355	-.3558	-.3762	-.3477	-.3476

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TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.959 BETA ( 2 ) = .183 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

(XEBK23)

SECTION 1 (RIGHT HAND INSIDE)

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2503 -.2937 -.2986 -.3079 -.2946 -.2903  
 .757 -.2763 -.2949 -.3008 -.3062 .0000 -.2844  
 .805 -.2844 -.2973 -.3024 -.3067 -.2953 -.2801  
 .887 -.3001 -.3154 -.3093 -.3115 -.2977 -.2805  
 .959 -.3325 -.3557 -.3893 -.3556 -.3286 -.3357

ALPHA ( 3 ) = 3.971 BETA ( 3 ) = 4.247 MACH = 1.3946 Q = 599.62 P = 440.42 RN/L = 2.9033

SECTION 1 (RIGHT HAND INSIDE)

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2500 -.3095 -.3254 -.2852 -.2781 -.2803  
 .757 -.2957 -.3122 -.3232 -.2900 -.0000 -.2793  
 .805 -.2959 -.3160 -.3211 -.2907 -.2824 -.2772  
 .887 -.3117 -.3233 -.3185 -.2982 -.2852 -.2780  
 .959 -.3358 -.3519 -.3745 -.3529 -.3197 -.3314

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.869 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION 1 (RIGHT HAND INSIDE)

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2720 -.2965 -.2742 -.3625 -.3530 -.3470  
 .757 -.2923 -.2958 -.2930 -.3518 .0000 -.3337  
 .805 -.2959 -.2937 -.2925 -.3496 -.3513 -.3280  
 .887 -.3239 -.3015 -.3092 -.3549 -.3499 -.3309  
 .959 -.3334 -.3565 -.3251 -.3991 -.3725 -.3753

ALPHA ( 4 ) = 7.939 BETA ( 2 ) = .178 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION 1 (RIGHT HAND INSIDE)

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2847 -.3178 -.3256 -.3355 -.3253 -.3206  
 .757 -.2936 -.3157 -.3229 -.3348 .0000 -.3139  
 .805 -.2934 -.3235 -.3291 -.3348 -.3249 -.3104  
 .887 -.3232 -.3311 -.3359 -.3366 -.3269 -.3111  
 .959 -.3393 -.3797 -.3463 -.3893 -.3553 -.3609

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 1.-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK23)

ORBITAL VELOCITY = 7.572 BETA ( 3 ) = 4.245 MACH = 1.3941 Q = 599.51 P = 440.65 RV/L = 2.9093

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z (3) 3.170 4.120 .5070 .6020 .6970 .7920  
 1.708 -2.728 -3.300 -3.313 -3.109 -3.017 -3.033  
 1.707 -3.279 -3.350 -3.431 -3.150 .0000 -3.036  
 1.696 -3.150 -3.390 -3.453 -3.164 -3.055 -3.021  
 1.687 -3.312 -3.469 -3.434 -3.204 -3.088 -3.048  
 1.668 -3.3571 -3.375 -3.393 -3.379 -3.345 -3.355

ALPHA ( 5 ) = 11.931 BETA ( 1 ) = -3.857 MACH = 1.3942 Q = 599.92 P = 440.89 RV/L = 2.9149

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z (3) 3.170 4.120 .5070 .6020 .6970 .7920  
 1.708 -2.678 -3.110 -2.910 -3.369 -3.376 -3.375  
 1.707 -3.217 -3.304 -3.314 -3.353 .0000 -3.582  
 1.696 -3.274 -3.334 -3.337 -3.379 -3.357 -3.525  
 1.687 -3.3213 -3.355 -3.368 -3.374 -3.350 -3.335  
 1.668 -3.377 -3.375 -3.384 -3.355 -3.323 -3.315

ALPHA ( 5 ) = 11.869 BETA ( 2 ) = .183 MACH = 1.3942 Q = 599.92 P = 440.89 RV/L = 2.9149

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z (3) 3.170 4.120 .5070 .6020 .6970 .7920  
 1.708 -2.805 -3.341 -3.399 -3.594 -3.342 -3.342  
 1.707 -3.127 -3.323 -3.350 -3.385 .0000 -3.385  
 1.696 -3.261 -3.346 -3.352 -3.387 -3.342 -3.354  
 1.687 -3.333 -3.352 -3.352 -3.382 -3.350 -3.383  
 1.668 -3.371 -3.365 -3.372 -3.343 -3.367 -3.3843

ALPHA ( 5 ) = 11.955 BETA ( 3 ) = 4.258 MACH = 1.3942 Q = 599.92 P = 440.89 RV/L = 2.9149

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z (3) 3.170 4.120 .5070 .6020 .6970 .7920  
 1.708 -2.693 -3.279 -3.392 -3.305 -3.319 -3.322  
 1.707 -3.207 -3.303 -3.371 -3.329 .0000 -3.215  
 1.696 -3.270 -3.354 -3.362 -3.341 -3.322 -3.320  
 1.687 -3.303 -3.343 -3.352 -3.393 -3.365 -3.352  
 1.668 -3.373 -3.394 -3.377 -3.377 -3.360 -3.3748

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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ALPHA (5) = 15.867 BETA (1) = -3.836 MACH = 1.3942 O = 599.51 P = 440.65 RN/L = 2.9096  
 (XEBK23)

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z EV .3170 .4120 .5070 .6020 .6970 .7920

1.00  
 .3018 -.3294 -.3195 -.3998 -.3912 -.3798  
 .2727 -.3289 -.3271 -.3901 .0000 -.3684  
 .2556 -.3270 -.3234 -.3333 -.3867 -.3623  
 .2387 -.3201 -.3372 -.3482 -.3920 -.3642  
 .2219 -.3556 -.3304 -.34195 -.4311 -.4036 -.4031

ALPHA (5) = 15.871 BETA (2) = .184 MACH = 1.3942 O = 599.51 P = 440.65 RN/L = 2.9096  
 SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z EV .3170 .4120 .5070 .6020 .6970 .7920

1.00  
 .2693 -.3590 -.3701 -.3784 -.3690 -.3537  
 .2427 -.3320 -.3635 -.3772 .0000 -.3587  
 .2160 -.3249 -.3654 -.3734 -.3765 -.3582 -.3551  
 .1894 -.3535 -.3773 -.3769 -.3903 -.3703 -.3590  
 .1628 -.3814 -.3740 -.3423 -.3250 -.3541 -.4031

ALPHA (5) = 15.861 BETA (3) = 4.263 MACH = 1.3942 O = 599.51 P = 440.65 RN/L = 2.9096  
 SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z EV .3170 .4120 .5070 .6020 .6970 .7920

1.00  
 .3041 -.3593 -.3811 -.3440 -.3297 -.3307  
 .2727 -.3359 -.3512 -.3466 .0000 -.3304  
 .2427 -.3450 -.3749 -.3466 -.3338 -.3316  
 .2160 -.3535 -.3713 -.3511 -.3373 -.3395  
 .1894 -.3804 -.3713 -.3425 -.3637 -.3680



20-000-000-75

INSULATED BRIDGE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK24) ( 13 AUG 75 )

# REFERENCE DATA

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -3.000 BETA ( 1 ) = -3.044 MACH = 1.2469 0 = 599.78 P = 551.11 RN/L = 3.0086

DEPENDENT VARIABLE CP

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
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ALPHA ( 2 ) = -3.000 BETA ( 2 ) = .190 MACH = 1.2469 0 = 599.78 P = 551.11 RN/L = 3.0086

DEPENDENT VARIABLE CP

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000  
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ALPHA ( 3 ) = -3.000 BETA ( 3 ) = 4.277 MACH = 1.2469 0 = 599.78 P = 551.11 RN/L = 3.0086

DEPENDENT VARIABLE CP

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK24)

ALPHA ( 3 ) = 3.905 BETA ( 2 ) = .182 MACH = 1.2475 Q = 600.37 P = 551.11 RV/L = 3.0117

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2999	-.3977	-.4018	-.4336	-.4189	-.4151
.757	-.3365	-.3931	-.4035	-.4298	.0000	-.4082
.805	-.3549	-.3919	-.4071	-.4289	-.4203	-.4035
.837	-.3720	-.4002	-.4151	-.4336	-.4227	-.4078
.868	-.3787	-.4133	-.4244	-.4395	-.4573	-.4653

ALPHA ( 3 ) = 3.915 BETA ( 3 ) = 4.245 MACH = 1.2475 Q = 600.37 P = 551.11 RV/L = 3.0117

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3053	-.4050	-.4205	-.4424	-.4084	-.4099
.757	-.3449	-.4064	-.4203	-.4434	.0000	-.4074
.805	-.3649	-.4103	-.4200	-.4431	-.4109	-.4056
.837	-.3893	-.4117	-.4179	-.4418	-.4141	-.4048
.868	-.4064	-.4155	-.4335	-.4512	-.4438	-.4069

ALPHA ( 4 ) = 7.877 BETA ( 1 ) = -3.867 MACH = 1.2474 Q = 600.25 P = 551.11 RV/L = 3.0132

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3153	-.3944	-.3979	-.4762	-.4645	-.4603
.757	-.3508	-.3932	-.4017	-.4648	.0000	-.4475
.805	-.3680	-.3942	-.4076	-.4617	-.4631	-.4415
.837	-.3866	-.4056	-.4183	-.4627	-.4624	-.4474
.868	-.4030	-.4191	-.4372	-.4750	-.4793	-.4903

ALPHA ( 5 ) = 7.892 BETA ( 2 ) = .178 MACH = 1.2474 Q = 600.25 P = 551.11 RV/L = 3.0132

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3299	-.4077	-.4231	-.4520	-.4427	-.4394
.757	-.3510	-.4094	-.4250	-.4484	.0000	-.4328
.805	-.3720	-.4115	-.4269	-.4482	-.4444	-.4283
.837	-.3901	-.4174	-.4321	-.4527	-.4458	-.4323
.868	-.3920	-.4110	-.4569	-.4661	-.4759	-.4853

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

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ALPHA (1) = 1.982 BETA (3) = 4.244 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132  
(XEBK24)

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -3288 -4283 -4524 -4310 -4306 -4315  
1.001 -3632 -4319 -4500 -4341 -4306 -4306  
1.002 -3952 -4367 -4477 -4339 -4332 -4291  
1.003 -4157 -4379 -4455 -4338 -4356 -4292  
1.004 -4288 -4375 -4438 -4352 -4322 -4285

ALPHA (5) = 11.916 BETA (1) = -3.850 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -3249 -4015 -4027 -4085 -4073 -4021  
1.001 -3505 -4095 -4052 -4042 -4000 -4095  
1.002 -3765 -4101 -4150 -4080 -4047 -4031  
1.003 -3960 -4151 -4223 -4095 -4030 -4058  
1.004 -4124 -4234 -4272 -4071 -4061 -4072

ALPHA (5) = 11.928 BETA (2) = .186 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -3263 -4284 -4481 -4751 -4675 -4525  
1.001 -3667 -4300 -4492 -4725 -4675 -4578  
1.002 -3986 -4334 -4504 -4715 -4670 -4533  
1.003 -4091 -4397 -4562 -4744 -4687 -4578  
1.004 -4136 -4431 -4597 -4797 -4697 -4567

ALPHA (5) = 11.922 BETA (3) = 4.256 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -3342 -4257 -4450 -4703 -4644 -4485  
1.001 -3754 -4270 -4450 -4639 -4600 -4455  
1.002 -3969 -4282 -4450 -4626 -4577 -4483  
1.003 -4070 -4354 -4450 -4603 -4508 -4503  
1.004 -4063 -4354 -4450 -4538 -4472 -4499

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -14CA/B/C/R ORB SPEED BRAKE

(XESK25) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1276.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0930 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 RDBLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -3.988 BETA ( 1 ) = -3.842 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.3472 -.4504 -.4523 -.5559 -.5609 -.5543  
 .757 -.3862 -.4490 -.4566 -.5433 -.0000 -.5431  
 .826 -.4090 -.4470 -.4632 -.5391 -.5561 -.5358  
 .897 -.4237 -.4526 -.4756 -.5400 -.5539 -.5404  
 .968 -.4249 -.4438 -.4490 -.5334 -.5647 -.5956

ALPHA ( 2 ) = -3.982 BETA ( 2 ) = .191 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1281

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.3463 -.4753 -.5007 -.5691 -.5541 -.5509  
 .757 -.3987 -.4739 -.5026 -.5596 -.0000 -.5420  
 .826 -.4176 -.4527 -.5069 -.5335 -.5553 -.5375  
 .897 -.4412 -.4665 -.5161 -.5629 -.5584 -.5333  
 .968 -.4340 -.4553 -.5218 -.6224 -.6036 -.5085

ALPHA ( 3 ) = -3.987 BETA ( 3 ) = 4.273 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.3597 -.4335 -.5242 -.5501 -.5453 -.5436  
 .757 -.4072 -.4934 -.5273 -.5451 -.0000 -.5396  
 .826 -.4247 -.4526 -.5221 -.5425 -.5455 -.5369  
 .897 -.4571 -.4814 -.5229 -.5406 -.5455 -.5393  
 .968 -.4514 -.4552 -.4708 -.5342 -.5586 -.5836

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OF POOR QUALITY

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK25)

ALPHA ( 2 ) = .056 BETA ( 1 ) = -3.867 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3460	-.4880	-.5052	-.5945	-.5856	-.5823
.757	-.3921	-.4668	-.5071	-.5792	.0000	-.5723
.805	-.4237	-.4884	-.5116	-.5740	-.5811	-.5652
.857	-.4497	-.4720	-.5190	-.5647	-.5768	-.5573
.908	-.4458	-.4300	-.4595	-.5197	-.5597	-.5882

ALPHA ( 2 ) = .056 BETA ( 2 ) = .181 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3426	-.4920	-.5240	-.5913	-.5792	-.5761
.757	-.3937	-.4925	-.5245	-.5811	.0000	-.5668
.805	-.4214	-.4968	-.5274	-.5759	-.5778	-.5611
.857	-.4491	-.4962	-.5312	-.5725	-.5775	-.5624
.908	-.4383	-.4383	-.4753	-.5661	-.6039	-.6279

ALPHA ( 2 ) = .056 BETA ( 3 ) = 4.249 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3658	-.5129	-.5584	-.5759	-.5747	-.5721
.757	-.4056	-.5131	-.5535	-.5750	.0000	-.5685
.805	-.4417	-.5233	-.5626	-.5697	-.5721	-.5640
.857	-.4726	-.5305	-.5493	-.5616	-.5716	-.5576
.908	-.4668	-.5446	-.4736	-.5245	-.5633	-.5923

ALPHA ( 3 ) = 3.848 BETA ( 1 ) = -3.871 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3419	-.5072	-.5339	-.6208	-.6083	-.6059
.757	-.3920	-.5095	-.5246	-.5071	.0000	-.5947
.805	-.4230	-.5029	-.5197	-.5283	-.6026	-.5862
.857	-.4462	-.4510	-.4542	-.4975	-.5939	-.5896
.908	-.4661	-.4663	-.4905	-.5247	-.5555	-.5305

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK25)

$\alpha = 3.948$      $\beta (2) = .177$      $MACH = 1.0978$      $Q = 599.38$      $P = 710.48$      $RN/L = 3.1840$

SECTION 1 (RIGHT HAND INSIDE)

DEPENDENT VARIABLE CP

$Z/BV$      $.3170$      $.4120$      $.5070$      $.6020$      $.6970$      $.7920$

X/CV

$.708$      $-.3444$      $-.5090$      $-.5482$      $-.6112$      $-.5993$      $-.5982$   
 $.757$      $-.3959$      $-.5106$      $-.5475$      $-.6001$      $.0000$      $-.5901$   
 $.805$      $-.4317$      $-.5161$      $-.5492$      $-.5936$      $-.5967$      $-.5839$   
 $.857$      $-.4625$      $-.5157$      $-.5504$      $-.5839$      $-.5936$      $-.5838$   
 $.909$      $-.4908$      $-.4428$      $-.4691$      $-.5347$      $-.5903$      $-.6257$

$\alpha = 3.950$      $\beta (3) = 4.239$      $MACH = 1.0978$      $Q = 599.38$      $P = 710.48$      $RN/L = 3.1840$

SECTION 1 (RIGHT HAND INSIDE)

DEPENDENT VARIABLE CP

$Z/BV$      $.3170$      $.4120$      $.5070$      $.6020$      $.6970$      $.7920$

X/CV

$.708$      $-.3530$      $-.5353$      $-.5774$      $-.5979$      $-.5946$      $-.5948$   
 $.757$      $-.4046$      $-.5353$      $-.5748$      $-.5927$      $.0000$      $-.5905$   
 $.805$      $-.4457$      $-.5427$      $-.5724$      $-.5886$      $-.5824$      $-.5862$   
 $.857$      $-.4787$      $-.5420$      $-.5559$      $-.5738$      $-.5881$      $-.5816$   
 $.909$      $-.4951$      $-.4737$      $-.4967$      $-.5273$      $-.5672$      $-.5925$

$\alpha = 7.932$      $\beta (1) = -3.857$      $MACH = 1.0936$      $Q = 599.84$      $P = 710.01$      $RN/L = 3.1812$

SECTION 1 (RIGHT HAND INSIDE)

DEPENDENT VARIABLE CP

$Z/BV$      $.3170$      $.4120$      $.5070$      $.6020$      $.6970$      $.7920$

X/CV

$.708$      $-.3543$      $-.5222$      $-.5498$      $-.6482$      $-.6382$      $-.6353$   
 $.757$      $-.4059$      $-.5200$      $-.5512$      $-.6325$      $.0000$      $-.6201$   
 $.805$      $-.4441$      $-.5245$      $-.5538$      $-.6242$      $-.6330$      $-.6090$   
 $.857$      $-.4777$      $-.5251$      $-.5531$      $-.6135$      $-.6232$      $-.5980$   
 $.909$      $-.4799$      $-.4705$      $-.5013$      $-.5417$      $-.5933$      $-.5606$

$\alpha = 7.939$      $\beta (2) = .185$      $MACH = 1.0986$      $Q = 599.84$      $P = 710.01$      $RN/L = 3.1812$

SECTION 1 (RIGHT HAND INSIDE)

DEPENDENT VARIABLE CP

$Z/BV$      $.3170$      $.4120$      $.5070$      $.6020$      $.6970$      $.7920$

X/CV

$.708$      $-.3512$      $-.5277$      $-.5705$      $-.6341$      $-.6248$      $-.6210$   
 $.757$      $-.4048$      $-.5203$      $-.5590$      $-.6234$      $.0000$      $-.6129$   
 $.805$      $-.4427$      $-.5208$      $-.5717$      $-.6153$      $-.6184$      $-.6073$   
 $.857$      $-.4772$      $-.5293$      $-.5705$      $-.6008$      $-.6108$      $-.6085$   
 $.909$      $-.4692$      $-.4403$      $-.4711$      $-.5337$      $-.5781$      $-.6082$

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK25)

ALPHA = 11.937 BETA ( 3 ) = 4.238 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3590	-.5523	-.5984	-.6108	-.6079	-.6084
.707	-.3592	-.5513	-.5980	-.6053	.0000	-.5994
.706	-.3593	-.5508	-.5978	-.6022	-.5998	-.5927
.705	-.3593	-.5507	-.5976	-.6006	-.5991	-.5897
.704	-.3592	-.5506	-.5974	-.5980	-.5986	-.5866

ALPHA = 11.970 BETA ( 1 ) = -3.845 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3736	-.5393	-.5627	-.6657	-.6571	-.6514
.707	-.3738	-.5385	-.5655	-.6490	.0000	-.6336
.706	-.3741	-.5377	-.5693	-.6421	-.6493	-.6214
.705	-.3730	-.5265	-.5777	-.6317	-.6397	-.6007
.704	-.3655	-.4869	-.5130	-.5560	-.5974	-.5578

ALPHA = 11.981 BETA ( 2 ) = .187 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3621	-.5441	-.5879	-.6353	-.6367	-.6377
.707	-.3612	-.5439	-.5953	-.6268	.0000	-.6280
.706	-.3632	-.5513	-.5935	-.6206	-.6294	-.6208
.705	-.3627	-.5522	-.5949	-.6078	-.6216	-.6196
.704	-.3680	-.5771	-.5786	-.5234	-.5784	-.5934

ALPHA = 11.975 BETA ( 3 ) = 4.250 MACH = 1.0981 Q = 599.46 P = 710.25 RN/L = 3.1817

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3917	-.5933	-.6224	-.6083	-.6162	-.6196
.707	-.3912	-.5917	-.6160	-.6093	.0000	-.6162
.706	-.3900	-.5907	-.6134	-.6102	-.6153	-.6143
.705	-.3926	-.5981	-.6076	-.6074	-.6110	-.6119
.704	-.3937	-.5968	-.6022	-.5783	-.5783	-.5797



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK26) ( 13 AUG 75 )

# REFERENCE DATA

REF = 2400.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 REF = 474.8000 IN. YMRP = .0000 IN. YO  
 REF = 336.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

# PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -3.845 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

M/CV

.008 -.3060 -.6185 -.6951 -.6732 -.5708 -.4591  
 .008 -.3060 -.6185 -.6951 -.6732 -.5708 -.4591  
 .008 -.3060 -.6185 -.6951 -.6732 -.5708 -.4591  
 .008 -.3060 -.6185 -.6951 -.6732 -.5708 -.4591  
 .008 -.3060 -.6185 -.6951 -.6732 -.5708 -.4591

ALPHA ( 2 ) = -3.377 BETA ( 2 ) = .190 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

M/CV

.008 -.2372 -.6179 -.7155 -.8390 -.7315 -.6317  
 .008 -.2372 -.6179 -.7155 -.8390 -.7315 -.6317  
 .008 -.2372 -.6179 -.7155 -.8390 -.7315 -.6317  
 .008 -.2372 -.6179 -.7155 -.8390 -.7315 -.6317  
 .008 -.2372 -.6179 -.7155 -.8390 -.7315 -.6317

ALPHA ( 3 ) = -3.986 BETA ( 3 ) = 4.276 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

M/CV

.008 -.3371 -.6576 -.6559 -.8773 -.8514 -.7842  
 .008 -.3371 -.6576 -.6559 -.8773 -.8514 -.7842  
 .008 -.3371 -.6576 -.6559 -.8773 -.8514 -.7842  
 .008 -.3371 -.6576 -.6559 -.8773 -.8514 -.7842  
 .008 -.3371 -.6576 -.6559 -.8773 -.8514 -.7842

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK26)

0.061 BETA ( 1 ) = -3.869 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -1.2916 -1.5501 -1.6527 -1.6788 -1.5944 -1.5175  
1.001 -1.3524 -1.5637 -1.6496 -1.5750 -1.4990 -1.4990  
1.002 -1.3972 -1.5720 -1.6342 -1.5477 -1.5571 -1.4786  
1.003 -1.4327 -1.5745 -1.6257 -1.6110 -1.5389 -1.4630  
1.004 -1.4511 -1.5301 -1.2992 -1.4537 -1.4931 -1.3575

AMES 11-073 ( 2 ) = .174 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION 2 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -1.3002 -1.5998 -1.5509 -1.8307 -1.7381 -1.6425  
1.001 -1.3780 -1.5952 -1.5685 -1.7973 -1.6000 -1.6001  
1.002 -1.4367 -1.5942 -1.5714 -1.7734 -1.6854 -1.5710  
1.003 -1.4704 -1.5697 -1.6040 -1.7367 -1.6616 -1.5525  
1.004 -1.3771 -1.3001 -1.3224 -1.5502 -1.6065 -1.4471

AMES 11-073 ( 3 ) = .4252 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION 3 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -1.2791 -1.4935 -1.5534 -1.8474 -1.8258 -1.7739  
1.001 -1.3397 -1.4943 -1.5669 -1.7875 -1.6000 -1.6810  
1.002 -1.3826 -1.5011 -1.5729 -1.7728 -1.7825 -1.6442  
1.003 -1.4035 -1.4951 -1.5864 -1.7659 -1.7587 -1.6221  
1.004 -1.3544 -1.4493 -1.3076 -1.5302 -1.6580 -1.4959

AMES 11-073 ( 4 ) = -3.877 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652

SECTION 4 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

1.000 -1.2971 -1.4955 -1.5532 -1.6209 -1.5195 -1.3712  
1.001 -1.3195 -1.4901 -1.5487 -1.6057 -1.5000 -1.3712  
1.002 -1.3471 -1.4929 -1.5511 -1.5932 -1.4917 -1.3575  
1.003 -1.3721 -1.4929 -1.5482 -1.5883 -1.4435 -1.3630  
1.004 -1.3593 -1.3111 -1.2712 -1.3912 -1.3712 -1.2780

DATE 11-07-76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6265

ALPHA ( 3 ) = 3.955 BETA ( 2 ) = .196 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652  
(XEBK26)

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2891 -.5511 -.6119 -.7691 -.7116 -.6400  
.757 -.3528 -.5458 -.6133 -.7402 .0000 -.5940  
.805 -.4090 -.5427 -.6136 -.7300 -.6598 -.5637  
.857 -.4347 -.5178 -.6124 -.6956 -.6391 -.5376  
.909 -.4576 -.5252 -.6239 -.6982 -.6074 -.4315

ALPHA ( 3 ) = 3.953 BETA ( 3 ) = 4.243 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2578 -.4903 -.5253 -.7938 -.7608 -.6915  
.757 -.3173 -.4732 -.5294 -.7360 .0000 -.5746  
.805 -.3608 -.4777 -.5398 -.7220 -.7027 -.5294  
.857 -.3912 -.4764 -.5532 -.7086 -.6570 -.5041  
.909 -.4332 -.4315 -.5382 -.6536 -.6174 -.3874

ALPHA ( 4 ) = 7.926 BETA ( 1 ) = -3.870 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2468 -.4339 -.5636 -.6061 -.4857 -.3557  
.757 -.3021 -.4530 -.5432 -.5764 .0000 -.3774  
.805 -.3359 -.4479 -.5246 -.5593 -.4443 -.3633  
.857 -.3715 -.4678 -.5204 -.5156 -.4239 -.3338  
.909 -.4303 -.4303 -.4919 -.5707 -.3964 -.2591

ALPHA ( 4 ) = 7.939 BETA ( 2 ) = .179 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3571 -.5110 -.5857 -.7311 -.6461 -.5854  
.757 -.4324 -.5146 -.5952 -.6973 .0000 -.5511  
.805 -.4997 -.5428 -.6093 -.6829 -.6129 -.5319  
.857 -.5420 -.5986 -.6774 -.6661 -.5918 -.5012  
.909 -.6363 -.6290 -.6927 -.6945 -.5632 -.3921

REFULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

(XEBK26)

AMES 11-073(04148) -140A/B/C/R ORB SPEED BRAKE

RN/L = 3.5747

P = 1060.2

Q = 600.20

DEPENDENT VARIABLE CP

Z 87 .3170 .4120 .5070 .6020 .6970 .7920

1702 -1.2503 -1.4540 -1.5139 -1.7209 -1.6945 -1.6126  
1703 -1.3045 -1.4952 -1.5025 -1.6759 -1.6000 -1.5080  
1704 -1.3518 -1.5218 -1.5087 -1.6626 -1.6279 -1.4713  
1705 -1.3754 -1.5464 -1.5279 -1.6391 -1.5962 -1.4597  
1706 -1.3910 -1.5652 -1.2939 -1.5087 -1.5520 -1.3391

RN/L = 3.5673

P = 1060.2

Q = 599.22

DEPENDENT VARIABLE CP

Z 87 .3170 .4120 .5070 .6020 .6970 .7920

1702 -1.2681 -1.4450 -1.5359 -1.5179 -1.5015 -1.4083  
1703 -1.3232 -1.4765 -1.5421 -1.5789 -1.5000 -1.3755  
1704 -1.3663 -1.5113 -1.5307 -1.5637 -1.4725 -1.3608  
1705 -1.3910 -1.5301 -1.5245 -1.5252 -1.4665 -1.3667  
1706 -1.4142 -1.5455 -1.4923 -1.3905 -1.4060 -1.2621

RN/L = 3.5673

P = 1060.2

Q = 599.22

DEPENDENT VARIABLE CP

Z 87 .3170 .4120 .5070 .6020 .6970 .7920

1702 -1.2615 -1.4419 -1.5318 -1.7198 -1.6574 -1.5952  
1703 -1.3148 -1.4719 -1.5232 -1.6029 -1.5000 -1.5709  
1704 -1.3579 -1.5075 -1.5387 -1.5895 -1.6135 -1.5389  
1705 -1.3910 -1.5301 -1.5429 -1.6507 -1.6104 -1.5166  
1706 -1.4142 -1.5455 -1.5314 -1.4997 -1.4048 -1.4072

RN/L = 3.5673

P = 1060.2

Q = 599.22

DEPENDENT VARIABLE CP

Z 87 .3170 .4120 .5070 .6020 .6970 .7920

1702 -1.2615 -1.4419 -1.5318 -1.6865 -1.6317 -1.6384  
1703 -1.3148 -1.4719 -1.5232 -1.6160 -1.5000 -1.5623  
1704 -1.3579 -1.5075 -1.5387 -1.5812 -1.6141 -1.4878  
1705 -1.3910 -1.5301 -1.5429 -1.6104 -1.5936 -1.4664  
1706 -1.4142 -1.5455 -1.5314 -1.4997 -1.4048 -1.2556

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6267

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK27) ( 13 AUG 75 )

# REFERENCE DATA

CPREF = 3630.0000 SQ.FT. VM2P = 1076.6800 IN. XO  
 LREF = 47.6000 IN. VM2P = .0000 IN. YO  
 SCREF = 325.6800 IN. VM2P = 375.0000 IN. ZO  
 SCALE = .0000

ALPHA ( 1 ) = -3.985 BETA ( 1 ) = -7.853 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BY 3170 +120 .5070 .6020 .6970 .7920

X-CY

709 -3181 -3505 -3535 -3453 -3214 -3017  
 708 -3278 -3599 -3581 -3322 -3000 -2900  
 707 -3369 -3643 -3564 -3243 -3031 -2831  
 706 -3455 -3675 -3587 -3305 -3050 -2843  
 705 -3538 -3703 -3613 -3337 -3089 -2876

ALPHA ( 2 ) = -3.959 BETA ( 2 ) = -3.841 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BY 3170 +120 .5070 .6020 .6970 .7920

X-CY

709 -3278 -3124 -3395 -3467 -3551 -3735  
 708 -3505 -3157 -3400 -3371 -3500 -3525  
 707 -3591 -3192 -3435 -3390 -3513 -3317  
 706 -3675 -3225 -3470 -3446 -3477 -3273  
 705 -3758 -3253 -3501 -3574 -3543 -3281

ALPHA ( 3 ) = -3.949 BETA ( 3 ) = .187 MACH = .59658 Q = 594.56 P = 2386.3 RN/L = 4.8484

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BY 3170 +120 .5070 .6020 .6970 .7920

X-CY

709 -3235 -3521 -3403 -3304 -3463 -3744  
 708 -3517 -3517 -3591 -3555 -3500 -3527  
 707 -3591 -3578 -3655 -3758 -3511 -3504  
 706 -3675 -3643 -3727 -3727 -3527 -3374  
 705 -3758 -3715 -3785 -3804 -3555 -3455

ORIGINAL PAGE IS  
 OF POOR QUALITY

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

TABLED PRESSURE DATA - 00148 ( AXES 1:-073-1 )

AXES 1:-073-1 = -2.957 BETA ( 4 ) = 4.268 MACH = .59658 O = 594.56 P = 2386.3 RN/L = 4.8454  
(XEBK27)

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/B/ 3.170 4.120 .5070 .6020 .6970 .7920

X/C/

1.00	-.2340	-.3297	-.3341	-.3231	-.2745	-.3076
1.50	-.2535	-.3413	-.3498	-.3233	.0000	-.2871
2.00	-.2610	-.3459	-.3535	-.3138	-.2728	-.2571
2.50	-.2810	-.3337	-.3453	-.2940	-.2704	-.2228
3.00	-.2312	-.1736	-.1544	-.1565	-.2399	-.1134

ALPHA ( 1 ) = -3.972 BETA ( 5 ) = 9.340 MACH = .59658 O = 594.56 P = 2386.3 RN/L = 4.8454

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/B/ 3.170 4.120 .5070 .6020 .6970 .7920

X/C/

1.00	-.2245	-.2935	-.3192	-.2432	-.2401	-.2673
1.50	-.2477	-.2809	-.3059	-.2459	.0000	-.2552
2.00	-.2548	-.2890	-.3009	-.2509	-.2432	-.2437
2.50	-.2610	-.2747	-.2785	-.2404	-.2451	-.2168
3.00	-.2211	-.1719	-.1510	-.1852	-.2208	-.1592

ALPHA ( 2 ) = .058 BETA ( 1 ) = -7.886 MACH = .59638 O = 594.21 P = 2386.5 RN/L = 4.8456

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/B/ 3.170 4.120 .5070 .6020 .6970 .7920

X/C/

1.00	-.2143	-.2591	-.2951	-.3257	-.3044	-.2773
1.50	-.2265	-.2624	-.2720	-.3099	.0000	-.2639
2.00	-.2375	-.2570	-.2680	-.3075	-.2892	-.2548
2.50	-.2208	-.2517	-.2655	-.2895	-.2813	-.2593
3.00	-.2109	-.1866	-.1508	-.2081	-.2377	-.2053

ALPHA ( 3 ) = .005 BETA ( 2 ) = -3.850 MACH = .59638 O = 594.21 P = 2386.5 RN/L = 4.8456

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/B/ 3.170 4.120 .5070 .6020 .6970 .7920

X/C/

1.00	-.2257	-.3012	-.3351	-.2792	-.3505	-.2600
1.50	-.2442	-.3074	-.3304	-.3539	.0000	-.3373
2.00	-.2513	-.3049	-.3218	-.3243	-.3474	-.2235
2.50	-.2664	-.2923	-.2711	-.3502	-.3329	-.2114
3.00	-.2464	-.2148	-.1440	-.2440	-.2184	-.2002

(XEBK27)

AMES 11-073-1

REGULATED PRESSURE DATA - 0A1W8 ( AMES 11-073-1 )

ALPHA ( 2 ) = .000 BETA ( 3 ) = .194 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION 1 ( 1 RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z ( IN )	.3170	.4120	.5070	.6020	.6970	.7920
CP	-.2257	-.3393	-.3915	-.3787	-.3316	-.3567
CP	-.2542	-.3711	-.3739	-.3753	-.0000	-.3342
CP	-.2778	-.3549	-.3722	-.3337	-.3263	-.3263
CP	-.2811	-.3229	-.3088	-.3499	-.3292	-.3154
CP	-.2893	-.3179	-.3155	-.2460	-.3187	-.2285

ALPHA ( 2 ) = .000 BETA ( 4 ) = .4247 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION 1 ( 1 RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z ( IN )	.3170	.4120	.5070	.6020	.6970	.7920
CP	-.2255	-.3359	-.3781	-.3085	-.2703	-.2984
CP	-.2660	-.3229	-.3643	-.3086	-.0000	-.2770
CP	-.2703	-.3311	-.3559	-.3309	-.2722	-.2515
CP	-.2809	-.3342	-.3295	-.2848	-.2517	-.2334
CP	-.2895	-.3173	-.3129	-.2339	-.2384	-.1466

ALPHA ( 2 ) = .000 BETA ( 5 ) = 8.305 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456

SECTION 1 ( 1 RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z ( IN )	.3170	.4120	.5070	.6020	.6970	.7920
CP	-.2219	-.3753	-.3043	-.2324	-.2346	-.2541
CP	-.2399	-.3729	-.2264	-.2315	-.0000	-.2474
CP	-.2429	-.2722	-.2839	-.2315	-.2408	-.2341
CP	-.2709	-.2731	-.2524	-.2303	-.2349	-.2256
CP	-.2813	-.3191	-.3145	-.2190	-.2160	-.1655

ALPHA ( 3 ) = 3.957 BETA ( 1 ) = -7.897 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

SECTION 1 ( 1 RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z ( IN )	.3170	.4120	.5070	.6020	.6970	.7920
CP	-.2119	-.3896	-.2491	-.2696	-.2753	-.2713
CP	-.2319	-.3515	-.2467	-.2690	-.0000	-.2501
CP	-.2311	-.3111	-.2473	-.2467	-.2472	-.2477
CP	-.2709	-.3175	-.2843	-.2696	-.2610	-.2412
CP	-.2719	-.3361	-.3193	-.2473	-.2312	-.1900

UNCLASSIFIED PRESSURE DATA - 06148 ( AMES 11-073-1 )

1 XE EX271

YES 11-07310A148) -140A/B/C/R O/SB SPEED BRAKE

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DEPENDENT VARIABLE CP

1. The first group of people who are not in the labor force are those who are not in the labor force because they are not in the labor force.

[illegible]

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																													
1990	3721	3293	3432	3138	3054	3001	2913	2835	2757	2679	2601	2523	2445	2367	2289	2211	2133	2055	1977	1899	1821	1743	1665	1587	1509	1431	1353	1275	1197	1119	1041	963	885	807	729	651	573	495	417	339	261	183	105	27	-1	-27	-55	-83	-111	-139	-167	-195	-223	-251	-279	-307	-335	-363	-391	-419	-447	-475	-503	-531	-559	-587	-615	-643	-671	-699	-727	-755	-783	-811	-839	-867	-895	-923	-951	-979	-1007	-1035	-1063	-1091	-1119	-1147	-1175	-1203	-1231	-1259	-1287	-1315	-1343	-1371	-1399	-1427	-1455	-1483	-1511	-1539	-1567	-1595	-1623	-1651	-1679	-1707	-1735	-1763	-1791	-1819	-1847	-1875	-1903	-1931	-1959	-1987	-2015	-2043	-2071	-2099	-2127	-2155	-2183	-2211	-2239	-2267	-2295	-2323	-2351	-2379	-2407	-2435	-2463	-2491	-2519	-2547	-2575	-2603	-2631	-2659	-2687	-2715	-2743	-2771	-2799	-2827	-2855	-2883	-2911	-2939	-2967	-2995	-3023	-3051	-3079	-3107	-3135	-3163	-3191	-3219	-3247	-3275	-3303	-3331	-3359	-3387	-3415	-3443	-3471	-3499	-3527	-3555	-3583	-3611	-3639	-3667	-3695	-3723	-3751	-3779	-3807	-3835	-3863	-3891	-3919	-3947	-3975	-4003	-4031	-4059	-4087	-4115	-4143	-4171	-4199	-4227	-4255	-4283	-4311	-4339	-4367	-4395	-4423	-4451	-4479	-4507	-4535	-4563	-4591	-4619	-4647	-4675	-4703	-4731	-4759	-4787	-4815	-4843	-4871	-4899	-4927	-4955	-4983	-5011	-5039	-5067	-5095	-5123	-5151	-5179	-5207	-5235	-5263	-5291	-5319	-5347	-5375	-5403	-5431	-5459	-5487	-5515	-5543	-5571	-5599	-5627	-5655	-5683	-5711	-5739	-5767	-5795	-5823	-5851	-5879	-5907	-5935	-5963	-5991	-6019	-6047	-6075	-6103	-6131	-6159	-6187	-6215	-6243	-6271	-6299	-6327	-6355	-6383	-6411	-6439	-6467	-6495	-6523	-6551	-6579	-6607	-6635	-6663	-6691	-6719	-6747	-6775	-6803	-6831	-6859	-6887	-6915	-6943	-6971	-6999	-7027	-7055	-7083	-7111	-7139

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DEPENDENT VARIABLE CP

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U.S. DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY  
WASHINGTON, D. C.

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TABULATED PRESSURE DATA (AMES 11-073-1)

ALPHA (1) = 7.936 BETA (1) = -7.885  
 (XEBK27) RN/L = 4.8429

10A/B/C/R ORB SPEED BRAKE

59590 Q = 593.13 P = 2386.0

SECTION 1 UPRIGHT HAND INSIDE

DEP. CP

Z/BV .3170 .4120 .5070 .6020

X/CV	1	2	3	4
.708	-1.929	-2.438	-2.362	-2.496
.757	-2.058	-2.392	-2.357	-2.251
.805	-2.209	-2.409	-2.367	-2.372
.853	-2.225	-2.351	-2.302	-2.251
.902	-2.280	-2.190	-2.148	-2.057
				-1.804

ALPHA (2) = 7.944 BETA (2) = -3.857 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION 2 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .7920

X/CV	1	2	3	4	5
.708	-2.052	-2.829	-3.044	-3.586	-3.097
.757	-2.209	-2.853	-3.051	-3.519	-3.000
.805	-2.471	-2.875	-3.029	-3.379	-3.022
.853	-2.521	-2.772	-2.998	-3.179	-3.036
.902	-2.357	-2.135	-2.150	-2.155	-2.261
					-1.1892

ALPHA (3) = 8.045 BETA (3) = .182 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION 3 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .7920

X/CV	1	2	3	4	5
.708	-2.170	-3.117	-3.549	-3.351	-3.096
.757	-2.415	-3.191	-3.449	-3.280	-3.000
.805	-2.513	-3.207	-3.416	-3.248	-3.007
.853	-2.570	-3.110	-3.294	-3.151	-3.007
.902	-2.313	-2.174	-2.155	-2.205	-2.2795
					-1.2650

ALPHA (4) = 8.043 BETA (4) = 4.239 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION 4 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .7920

X/CV	1	2	3	4	5
.708	-2.052	-2.829	-3.044	-2.744	-2.459
.757	-2.209	-2.853	-3.051	-2.684	-2.472
.805	-2.471	-2.875	-3.029	-2.558	-2.458
.853	-2.521	-2.772	-2.998	-2.510	-2.299
.902	-2.357	-2.135	-2.150	-2.129	-2.217
					-1.1589

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CALCULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK27)

ALPHA ( 4 ) = 8.04; BETA ( 5 ) = 8.297 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1993	-.2421	-.2610	-.2241	-.2080	-.2189
.757	-.2095	-.2343	-.2595	-.2139	.0000	-.2118
.805	-.2218	-.2480	-.2448	-.2058	-.2096	-.2163
.857	-.2279	-.2435	-.2365	-.2061	-.2156	-.2059
.908	-.2286	-.2048	-.1664	-.1600	-.1909	-.1643

ALPHA ( 5 ) = 11.929 BETA ( 1 ) = -7.850 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1877	-.2233	-.2245	-.2436	-.2525	-.2704
.757	-.2017	-.2267	-.2250	-.2334	.0000	-.2625
.805	-.2136	-.2274	-.2221	-.2369	-.2608	-.2529
.857	-.2222	-.2224	-.2238	-.2343	-.2601	-.2437
.908	-.2326	-.2053	-.1625	-.1718	-.2097	-.1913

ALPHA ( 5 ) = 11.929 BETA ( 2 ) = -3.836 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2013	-.2718	-.2946	-.3469	-.2872	-.2927
.757	-.2206	-.2719	-.2898	-.3299	.0000	-.2673
.805	-.2375	-.2746	-.2886	-.3221	-.2828	-.2527
.857	-.2459	-.2697	-.2903	-.2989	-.2773	-.2514
.908	-.2289	-.1840	-.1485	-.2039	-.2377	-.1745

ALPHA ( 5 ) = 11.930 BETA ( 3 ) = .181 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2092	-.3029	-.3484	-.3475	-.2675	-.2895
.757	-.2282	-.3096	-.3384	-.3343	.0000	-.2732
.805	-.2334	-.3066	-.3185	-.3176	-.2713	-.2634
.857	-.2308	-.3008	-.3093	-.2945	-.2656	-.2543
.908	-.2226	-.1702	-.1572	-.2030	-.2417	-.1797

DATE 14 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 6273

AMES 11-073(OA148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK27)

ALPHA ( 5 ) = 11.930 BETA ( 4 ) = 4.251 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1: 1:120 HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3:70 .4:120 .5:070 .6:020 .6:970 .7:920

X/CV

.708	-.2051	-.2941	-.3344	-.2544	-.2359	-.2444
.757	-.2270	-.2917	-.3263	-.2540	.0000	-.2326
.805	-.2500	-.2995	-.3111	-.2466	-.2421	-.2309
.897	-.2590	-.2958	-.2946	-.2356	-.2333	-.2309
.958	-.2457	-.2031	-.1521	-.1747	-.2052	-.1682

ALPHA ( 5 ) = 11.920 BETA ( 5 ) = 8.317 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION 1: 1:120 HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3:70 .4:120 .5:070 .6:020 .6:970 .7:920

X/CV

.708	-.1977	-.2340	-.2411	-.1942	-.2021	-.2185
.757	-.2128	-.2230	-.2444	-.1902	.0000	-.2009
.805	-.2112	-.2280	-.2323	-.1869	-.2009	-.2088
.897	-.2192	-.2353	-.2185	-.1854	-.2038	-.2006
.958	-.2344	-.2179	-.1595	-.1571	-.1885	-.1653

DATE 14 FEB 78

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6274

AMES 11 073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK28) ( 13 AUG 75 )

## REFERENCE DATA

GREF = 2830.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.9000 IN. YMRP = .0000 IN. Y0  
 BREF = 935.0800 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 35.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -3.978 BETA ( 1 ) = -3.855 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214  
 SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BY .3170 .4120 .5070 .6020 .6970 .7920

X/CY

.708 -.5769 -.5539 -.5571 -.5552 -.5404 -.4919  
 .757 -.5536 -.5572 -.5725 -.5662 -.0000 -.4928  
 .805 -.5468 -.5550 -.5755 -.5662 -.5355 -.4959  
 .857 -.5556 -.5727 -.5765 -.5639 -.5315 -.4968  
 .908 -.5605 -.5743 -.5730 -.5574 -.5277 -.5096

ALPHA ( 1 ) = -3.971 BETA ( 2 ) = .185 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214  
 SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BY .3170 .4120 .5070 .6020 .6970 .7920

X/CY

.708 -.5764 -.5500 -.5633 -.5504 -.5453 -.5113  
 .757 -.5469 -.5542 -.5668 -.5600 -.0000 -.5018  
 .805 -.5424 -.5611 -.5692 -.5602 -.5401 -.4980  
 .857 -.5528 -.5670 -.5685 -.5585 -.5361 -.4929  
 .908 -.5566 -.5670 -.5640 -.5552 -.5316 -.4948

ALPHA ( 1 ) = -3.978 BETA ( 3 ) = 4.270 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214  
 SECTION : UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BY .3170 .4120 .5070 .6020 .6970 .7920

X/CY

.708 -.5236 -.5536 -.5673 -.5550 -.5543 -.5202  
 .757 -.5495 -.5676 -.5710 -.5656 -.0000 -.5105  
 .805 -.5477 -.5647 -.5742 -.5657 -.5484 -.5075  
 .857 -.5534 -.5720 -.5744 -.5633 -.5467 -.5031  
 .908 -.5604 -.5723 -.5699 -.5600 -.5418 -.4991

DATE 14 FEB 76

## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/S/C/R ORB SPEED BRAKE

(XEBK28)

ALPHA ( 2 ) = -.053 BETA ( 1 ) = -3.876 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B1 .3170 .4120 .5070 .6020 .6970 .7920

X/C1

.703	-.5828	-.5583	-.5717	-.5705	-.5497	-.5007
.757	-.5852	-.5628	-.5766	-.5719	.0000	-.4979
.805	-.5815	-.5689	-.5804	-.5717	-.5446	-.4972
.857	-.5824	-.5755	-.5811	-.5691	-.5396	-.4937
.903	-.5851	-.5772	-.5780	-.5627	-.5363	-.5003

ALPHA ( 2 ) = -.045 BETA ( 2 ) = .182 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B1 .3170 .4120 .5070 .6020 .6970 .7920

X/C1

.703	-.5925	-.5570	-.5700	-.5667	-.5540	-.5188
.757	-.5839	-.5605	-.5738	-.5691	.0000	-.5100
.805	-.5826	-.5693	-.5784	-.5679	-.5492	-.5069
.857	-.5823	-.5744	-.5766	-.5660	-.5457	-.5002
.903	-.5834	-.5742	-.5717	-.5632	-.5421	-.4980

ALPHA ( 2 ) = -.049 BETA ( 3 ) = 4.247 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B1 .3170 .4120 .5070 .6020 .6970 .7920

X/C1

.703	-.5313	-.5527	-.5757	-.5740	-.5617	-.5296
.757	-.5599	-.5653	-.5797	-.5750	.0000	-.5201
.805	-.5528	-.5724	-.5828	-.5735	-.5584	-.5166
.857	-.5556	-.5915	-.5825	-.5726	-.5551	-.5134
.903	-.5591	-.5913	-.5797	-.5681	-.5506	-.5087

ALPHA ( 3 ) = 3.388 BETA ( 1 ) = -3.879 MACH = 1.3920 Q = 599.57 P = 442.06 RN/L = 2.9184

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B1 .3170 .4120 .5070 .6020 .6970 .7920

X/C1

.703	-.5955	-.5545	-.5777	-.5792	-.5621	-.5217
.757	-.5815	-.5667	-.5834	-.5815	.0000	-.5135
.805	-.5882	-.5728	-.5855	-.5813	-.5584	-.5106
.857	-.5839	-.5815	-.5881	-.5796	-.5539	-.5078
.903	-.5828	-.5844	-.5958	-.5735	-.5489	-.5059

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

DATE 14 FEB 76  
 ALPHA ( 3 ) = 3.892 BETA ( 2 ) = .179 MACH = 1.3920 Q = 599.57 P = 442.06 RN/L = 2.9184  
 AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
 (XEBK28)

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .703 -.5863 -.5634 -.5756 -.5742 -.5617 -.5276  
 .757 -.5593 -.5660 -.5804 -.5752 -.5000 -.5184  
 .805 -.5556 -.5735 -.5832 -.5747 -.5572 -.5155  
 .837 -.5643 -.5791 -.5837 -.5723 -.5548 -.5097  
 .958 -.5688 -.5800 -.5794 -.5697 -.5510 -.5064

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.241 MACH = 1.3920 Q = 599.57 P = 442.05 RN/L = 2.9184

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5356 -.5692 -.5791 -.5791 -.5673 -.5333  
 .757 -.5654 -.5727 -.5812 -.5812 -.5000 -.5259  
 .805 -.5623 -.5776 -.5876 -.5795 -.5628 -.5219  
 .887 -.5599 -.5880 -.5880 -.5781 -.5585 -.5211  
 .958 -.5748 -.5885 -.5845 -.5743 -.5536 -.5183

ALPHA ( 4 ) = 7.940 BETA ( 1 ) = -3.870 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.9184

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5930 -.5711 -.5929 -.5853 -.5747 -.5378  
 .757 -.5699 -.5734 -.5877 -.5870 -.5000 -.5300  
 .805 -.5535 -.5799 -.5919 -.5879 -.5704 -.5276  
 .887 -.5708 -.5890 -.5932 -.5857 -.5676 -.5237  
 .958 -.5749 -.5936 -.5926 -.5820 -.5610 -.5227

ALPHA ( 4 ) = 7.946 BETA ( 2 ) = .176 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.9184

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .706 -.5935 -.5702 -.5828 -.5821 -.5722 -.5379  
 .757 -.5695 -.5735 -.5873 -.5845 -.5000 -.5318  
 .805 -.5633 -.5736 -.5909 -.5943 -.5694 -.5282  
 .837 -.5720 -.5879 -.5916 -.5826 -.5668 -.5237  
 .958 -.5751 -.5936 -.5978 -.5791 -.5609 -.5216

(XEBK28)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 4 ) = 7.2+3 BETA ( 3 ) = 4.239 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.9184

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5240	-.5809	-.5952	-.5950	-.5792	-.5423
.757	-.5729	-.5935	-.5988	-.5964	-.5900	-.5363
.805	-.5743	-.5903	-.6016	-.5954	-.5747	-.5333
.857	-.5825	-.5986	-.6025	-.5952	-.5711	-.5288
.908	-.5712	-.5995	-.6032	-.5905	-.5573	-.5244

ALPHA ( 5 ) = 11.853 BETA ( 1 ) = -3.856 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6024	-.5307	-.5917	-.5957	-.5884	-.5509
.757	-.5795	-.5331	-.5959	-.5985	-.5900	-.5447
.805	-.5759	-.5369	-.6002	-.5998	-.5839	-.5417
.857	-.5721	-.5338	-.6021	-.5938	-.5793	-.5389
.908	-.5533	-.5339	-.6022	-.5935	-.5752	-.5355

ALPHA ( 5 ) = 11.873 BETA ( 2 ) = .179 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5927	-.5791	-.5909	-.5909	-.5834	-.5485
.757	-.5763	-.5820	-.5946	-.5924	-.5900	-.5426
.805	-.5718	-.5862	-.5979	-.5932	-.5778	-.5386
.857	-.5697	-.5840	-.5958	-.5920	-.5750	-.5351
.908	-.5557	-.5849	-.5938	-.5855	-.5712	-.5328

ALPHA ( 5 ) = 11.970 BETA ( 3 ) = 4.256 MACH = 1.3913 Q = 599.66 P = 442.53 RN/L = 2.9180

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5818	-.5911	-.6041	-.6041	-.5983	-.5521
.757	-.5697	-.5842	-.6074	-.6051	-.5900	-.5474
.805	-.5615	-.5803	-.6100	-.6055	-.5840	-.5441
.857	-.5592	-.5808	-.6112	-.6034	-.5805	-.5401
.908	-.5477	-.5808	-.6101	-.6035	-.5759	-.5375

AMES 11-073 (A:43) - 140A/B/C/R ORB SPEED BRAKE

(XE8K28)

ALPHA (2) = 15.954 BETA (1) = 3.931 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9206

SECTION 1: 1.0104" HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.6171	-.5955	-.6042	-.6089	-.6007	-.5685
.751	-.5954	-.5977	-.6036	-.6108	.0000	-.5617
.806	-.5902	-.6011	-.6117	-.6119	-.5925	-.5591
.837	-.5942	-.6031	-.6141	-.6125	-.5952	-.5542
.869	-.5997	-.6103	-.6132	-.6070	-.5917	-.5526

ALPHA (3) = 15.922 BETA (2) = .178 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9206

SECTION 1: 1.0104" HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.6105	-.6089	-.6001	-.6033	-.5902	-.5566
.751	-.5977	-.5930	-.6053	-.6020	.0000	-.5504
.806	-.5821	-.5933	-.6077	-.6025	-.5854	-.5486
.837	-.5901	-.6037	-.6091	-.6031	-.5831	-.5427
.869	-.5948	-.6115	-.6062	-.5958	-.5799	-.5399

ALPHA (3) = 15.859 BETA (3) = 4.283 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9206

SECTION 1: 1.0104" HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.6253	-.6072	-.6200	-.6155	-.5907	-.5554
.751	-.6033	-.6103	-.6243	-.6169	.0000	-.5521
.806	-.6023	-.6150	-.6259	-.6158	-.5838	-.5498
.837	-.6102	-.6241	-.6259	-.6139	-.5803	-.5507
.869	-.6173	-.6253	-.6247	-.6103	-.5755	-.5536



REFERENCE DATA

REF = 1500.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 724.8000 IN. YMRP = .0000 IN. YO  
 BREF = 335.0690 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

ALPHA ( 1 ) = -3.985 BETA ( 1 ) = -3.845 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0225

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 94 .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.739 -.6833 -.6555 -.6833 -.6826 -.6616 -.6074  
 .757 -.6542 -.6100 -.6559 -.6352 -.6000 -.6013  
 .805 -.6559 -.6100 -.6556 -.6354 -.6047 -.5963  
 .857 -.6570 -.6112 -.6568 -.6347 -.6076 -.5954  
 .909 -.6579 -.6123 -.6575 -.6340 -.6091 -.5950

ALPHA ( 2 ) = -3.957 BETA ( 2 ) = .186 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0225

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 94 .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.739 -.6835 -.6511 -.6752 -.6737 -.6567 -.6154  
 .757 -.6542 -.6141 -.6828 -.6743 .0000 -.6079  
 .805 -.6514 -.6123 -.6552 -.6758 -.6511 -.6048  
 .857 -.6510 -.6133 -.6874 -.6725 -.6463 -.6032  
 .909 -.6539 -.6164 -.6955 -.6678 -.6388 -.5980

ALPHA ( 3 ) = -3.974 BETA ( 3 ) = 4.263 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0225

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 94 .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.739 -.7064 -.6717 -.6874 -.6848 -.6716 -.6328  
 .757 -.6820 -.6700 -.6947 -.6872 .0000 -.6250  
 .805 -.6841 -.6735 -.6935 -.6874 -.6661 -.6215  
 .857 -.6845 -.6739 -.6937 -.6846 -.6628 -.6167  
 .909 -.6840 -.6730 -.6930 -.6834 -.6534 -.6122

PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = 35.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = 1.250

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COMPUTED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK29)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 2 ) = -.035 BETA ( 1 ) = -3.871 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.6915 -.6281 -.6951 -.6867 -.6693 -.6161  
 .757 -.6531 -.6702 -.6922 -.6903 .0000 -.6085  
 .805 -.6536 -.6780 -.6967 -.6917 -.6629 -.6062  
 .857 -.6581 -.6901 -.6997 -.6924 -.6553 -.6034  
 .909 -.6752 -.6949 -.6981 -.6841 -.6433 -.5996

ALPHA ( 2 ) = -.027 BETA ( 2 ) = .182 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.5966 -.6571 -.6820 -.6830 -.6660 -.6239  
 .757 -.6719 -.6709 -.6932 -.6846 .0000 -.6185  
 .805 -.6574 -.6794 -.6931 -.6944 -.6598 -.6157  
 .857 -.6660 -.6662 -.6953 -.6839 -.6560 -.6144  
 .909 -.6730 -.6527 -.6936 -.6771 -.6464 -.6097

ALPHA ( 2 ) = -.032 BETA ( 3 ) = 4.246 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.7176 -.6924 -.6937 -.6975 -.6836 -.6453  
 .757 -.6792 -.6864 -.7029 -.7001 .0000 -.6396  
 .805 -.6744 -.6935 -.7067 -.7008 -.6803 -.6372  
 .857 -.6833 -.7047 -.7099 -.6999 -.6748 -.6339  
 .909 -.6935 -.7065 -.7077 -.6923 -.6563 -.6293

ALPHA ( 3 ) = 3.922 BETA ( 1 ) = -3.869 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0214

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.6966 -.6742 -.6977 -.6927 -.6780 -.6255  
 .757 -.6997 -.6756 -.6931 -.6967 .0000 -.6177  
 .805 -.6552 -.6931 -.6976 -.6998 -.6742 -.6180  
 .857 -.6732 -.6896 -.7002 -.7009 -.6733 -.6135  
 .909 -.6796 -.6921 -.7021 -.6939 -.6546 -.5950

## INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XE8K29)

ALPHA ( 4 ) = 3.922 BETA ( 2 ) = .180 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0214

## SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.7009	-.6753	-.6909	-.6926	-.6753	-.6340
.708	-.6711	-.6792	-.6983	-.6959	.0000	-.6281
.757	-.6552	-.6357	-.7018	-.6958	-.6704	-.6250
.805	-.6763	-.6953	-.7039	-.6957	-.6684	-.6228
.837	-.6924	-.7008	-.7020	-.6874	-.6560	-.6178

ALPHA ( 3 ) = 3.925 BETA ( 3 ) = 4.237 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0214

## SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.7295	-.6948	-.7090	-.7116	-.6439	-.6556
.708	-.6903	-.6281	-.7135	-.7140	.0000	-.6516
.757	-.6877	-.7033	-.7165	-.7154	-.6949	-.6494
.805	-.6972	-.7119	-.7187	-.7159	-.6920	-.6451
.837	-.7012	-.7135	-.7185	-.7102	-.6798	-.6352

ALPHA ( 4 ) = 7.991 BETA ( 1 ) = -3.870 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0208

## SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.7302	-.6764	-.6914	-.6978	-.6832	-.6345
.708	-.6744	-.6313	-.6973	-.7011	.0000	-.6290
.757	-.6714	-.6657	-.6937	-.7040	-.6908	-.6300
.805	-.6797	-.6952	-.7037	-.7059	-.6798	-.6276
.837	-.6835	-.6903	-.7031	-.6950	-.6524	-.6118

ALPHA ( 4 ) = 7.934 BETA ( 2 ) = .176 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0205

## SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.7262	-.6825	-.6934	-.6998	-.6856	-.6392
.708	-.6795	-.6356	-.6929	-.7017	.0000	-.6355
.757	-.6757	-.6920	-.6959	-.7040	-.6839	-.6338
.805	-.6835	-.6904	-.7035	-.7055	-.6754	-.6306
.837	-.6875	-.6913	-.7033	-.6955	-.6525	-.6244

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK29)

ALPHA ( 4 ) = 7.935 BETA ( 3 ) = 4.240 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0205

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7388	-.7029	-.7182	-.7221	-.7060	-.6571
.757	-.6938	-.7076	-.7242	-.7247	.0000	-.6536
.805	-.6972	-.7128	-.7285	-.7254	-.7003	-.6495
.853	-.7047	-.7242	-.7299	-.7254	-.6949	-.6478
.901	-.7095	-.7268	-.7285	-.7192	-.6845	-.6400

ALPHA ( 5 ) = 11.923 BETA ( 1 ) = -3.851 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7153	-.6931	-.7032	-.7103	-.6980	-.6512
.757	-.6907	-.6943	-.7135	-.7136	.0000	-.6476
.805	-.6945	-.6933	-.7135	-.7159	-.6951	-.6488
.853	-.6919	-.7224	-.7150	-.7186	-.6956	-.6428
.901	-.6969	-.7235	-.7168	-.7094	-.6798	-.6281

ALPHA ( 5 ) = 11.934 BETA ( 2 ) = .177 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7146	-.6924	-.7051	-.7087	-.6959	-.6525
.757	-.6993	-.6943	-.7103	-.7124	.0000	-.6473
.805	-.6953	-.6935	-.7123	-.7139	-.6921	-.6473
.853	-.6937	-.7092	-.7134	-.7148	-.6898	-.6467
.901	-.6969	-.7113	-.7143	-.7070	-.6784	-.6375

ALPHA ( 5 ) = 11.927 BETA ( 3 ) = 4.253 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7397	-.7065	-.7255	-.7270	-.7057	-.6570
.757	-.7019	-.7118	-.7312	-.7277	.0000	-.6525
.805	-.7033	-.7118	-.7300	-.7300	-.6487	-.6487
.853	-.7029	-.7305	-.7359	-.7281	-.5948	-.6463
.901	-.7151	-.7347	-.7345	-.7213	-.6291	-.6399

TABLED PRESSURE DATA - 00140 ( AMES 11-073-1 )

(XEBK30) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R 038 SPEED BRAKE

REFERENCE DATA

XMRP = 1076.6800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO  
 XMRP = 1076.6800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO  
 XMRP = 1076.6800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

RUDDER = -10.000  
 BDFLAP = 16.300  
 R-ELVN = .000  
 SPDRK = 35.000  
 L-ELVN = 10.000  
 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -3.852 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908  
 ALPHA ( 2 ) = -3.935 BETA ( 2 ) = .190 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 18V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703 -1.8259 -1.8251 -1.8211 -1.8272 -1.7977 -1.7273  
 .707 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .710 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .713 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .716 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .719 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245

SECTION 2 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 18V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703 -1.8259 -1.8251 -1.8211 -1.8272 -1.7977 -1.7273  
 .707 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .710 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .713 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .716 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .719 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245

SECTION 3 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 18V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703 -1.8259 -1.8251 -1.8211 -1.8272 -1.7977 -1.7273  
 .707 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .710 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .713 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .716 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245  
 .719 -1.7983 -1.8331 -1.8331 -1.8319 -1.8000 -1.7245

ALPHA ( 2 ) = -.020 BETA ( 1 ) = -3.865 MACH = 1.0985 Q = 599.48 P = 709.54 RN/L = 3.1896  
(XEBK30)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.8095 -.7882 -.8047 -.8141 -.7886 -.7158  
.757 -.7828 -.7936 -.8162 -.8215 .0000 -.7153  
.805 -.7788 -.8033 -.8283 -.8231 -.7827 -.7143  
.897 -.7854 -.8194 -.8365 -.8219 -.7763 -.7111  
.959 -.7944 -.8264 -.8380 -.8077 -.7590 -.6952

ALPHA ( 2 ) = -.014 BETA ( 2 ) = .187 MACH = 1.0986 Q = 599.48 P = 709.54 RN/L = 3.1896

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.8203 -.7952 -.8068 -.8116 -.7943 -.7427  
.757 -.7922 -.7948 -.8177 -.8163 .0000 -.7403  
.805 -.7858 -.8052 -.8298 -.8177 -.7900 -.7420  
.897 -.7914 -.8238 -.8383 -.8161 -.7874 -.7409  
.958 -.8000 -.8354 -.8367 -.8064 -.7777 -.7295

ALPHA ( 2 ) = -.017 BETA ( 3 ) = 4.244 MACH = 1.0986 Q = 599.48 P = 709.54 RN/L = 3.1896

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.8409 -.8069 -.8210 -.8229 -.8049 -.7541  
.757 -.7957 -.8089 -.8295 -.8269 .0000 -.7524  
.805 -.7941 -.8154 -.8399 -.8283 -.8028 -.7498  
.897 -.8248 -.8338 -.8469 -.8262 -.8002 -.7428  
.958 -.8135 -.8416 -.8437 -.8193 -.7926 -.7324

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -3.869 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7795 -.7709 -.7854 -.7937 -.7705 -.6983  
.757 -.7622 -.7727 -.7977 -.8017 .0000 -.6957  
.805 -.7555 -.7772 -.8102 -.8093 -.7629 -.6948  
.897 -.7632 -.7958 -.8202 -.8069 -.7568 -.6853  
.958 -.7742 -.8095 -.8213 -.7946 -.7393 -.6742

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK30)

ALPHA ( 3 ) = 3.959 BETA ( 2 ) = .177 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.8025	-.7855	-.7983	-.8035	-.7834	-.7310
.757	-.7737	-.7839	-.8086	-.8082	.0000	-.7291
.805	-.7707	-.7914	-.8209	-.8105	-.7780	-.7277
.837	-.7773	-.8126	-.8315	-.8082	-.7730	-.7248
.958	-.7867	-.8288	-.8301	-.7971	-.7619	-.7161

ALPHA ( 3 ) = 3.960 BETA ( 3 ) = 4.234 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.8227	-.7949	-.8139	-.8186	-.7922	-.7333
.757	-.7645	-.7991	-.8252	-.8222	.0000	-.7319
.805	-.7821	-.8086	-.8394	-.8293	-.7853	-.7286
.887	-.7934	-.8316	-.8465	-.8185	-.7780	-.7229
.958	-.8048	-.8430	-.8434	-.8082	-.7671	-.7130

ALPHA ( 4 ) = 8.035 BETA ( 1 ) = -3.862 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7354	-.7293	-.7471	-.7539	-.7282	-.6494
.757	-.7212	-.7323	-.7629	-.7631	.0000	-.6480
.805	-.7120	-.7434	-.7756	-.7674	-.7189	-.6468
.887	-.7234	-.7634	-.7955	-.7704	-.7126	-.6422
.958	-.7378	-.7809	-.7872	-.7553	-.6928	-.6321

ALPHA ( 4 ) = 8.041 BETA ( 2 ) = .181 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7688	-.7574	-.7750	-.7793	-.7573	-.6986
.757	-.7484	-.7612	-.7862	-.7852	.0000	-.6991
.805	-.7449	-.7630	-.8006	-.7847	-.7490	-.6979
.887	-.7529	-.7932	-.8103	-.7850	-.7445	-.6938
.958	-.7648	-.8036	-.8091	-.7722	-.7332	-.6884

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK30)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 4 ) = 8.040 BETA ( 3 ) = 4.238 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.8261	-.7999	-.8161	-.8153	-.7924	-.7332
.757	-.7897	-.7939	-.8269	-.8194	.0000	-.7299
.805	-.7885	-.8112	-.8357	-.8229	-.7872	-.7265
.857	-.7987	-.8320	-.8392	-.8220	-.7820	-.7247
.909	-.8293	-.8358	-.8357	-.8068	-.7691	-.7146

ALPHA ( 5 ) = 11.975 BETA ( 1 ) = -3.843 MACH = 1.0970 Q = 599.10 P = 711.19 RN/L = 3.1892

## SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.7537	-.7480	-.7662	-.7679	-.7398	-.6736
.757	-.7374	-.7502	-.7792	-.7773	.0000	-.6698
.805	-.7334	-.7599	-.7913	-.7818	-.7341	-.6724
.857	-.7438	-.7713	-.8300	-.7773	-.7291	-.6627
.909	-.7551	-.7979	-.8014	-.7617	-.7121	-.6490

ALPHA ( 5 ) = 11.995 BETA ( 2 ) = .181 MACH = 1.0970 Q = 599.10 P = 711.19 RN/L = 3.1892

## SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.7651	-.7753	-.7918	-.7982	-.7755	-.7216
.757	-.7692	-.7781	-.8008	-.8041	.0000	-.7234
.805	-.7601	-.7828	-.8173	-.8062	-.7705	-.7189
.857	-.7659	-.8006	-.8277	-.8048	-.7634	-.7133
.909	-.7785	-.8197	-.8263	-.7937	-.7544	-.7029

ALPHA ( 5 ) = 11.977 BETA ( 3 ) = 4.250 MACH = 1.0970 Q = 599.10 P = 711.19 RN/L = 3.1892

## SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.8251	-.8227	-.8253	-.8123	-.7854	-.7201
.757	-.7895	-.8009	-.8350	-.8208	.0000	-.7189
.805	-.7925	-.8216	-.8407	-.8325	-.7783	-.7192
.857	-.8009	-.8413	-.8412	-.8110	-.7698	-.7134
.909	-.8133	-.8463	-.8334	-.8039	-.7603	-.7058



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK31) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 35.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 NACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -3.852 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5220 -.5281 -.5628 -.5831 -.5379 -.4215  
 .757 -.5101 -.5347 -.5928 -.5542 .0000 -.4165  
 .805 -.5134 -.5494 -.6158 -.5975 -.5171 -.4177  
 .887 -.5234 -.6118 -.6427 -.6025 -.5060 -.4096  
 .968 -.5909 -.6548 -.6510 -.5940 -.5001 -.4048

ALPHA ( 2 ) = -3.975 BETA ( 2 ) = .187 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5560 -.5563 -.6020 -.6197 -.5774 -.4465  
 .757 -.5433 -.5517 -.6235 -.6360 .0000 -.4420  
 .805 -.5445 -.5879 -.6489 -.6364 -.5538 -.4443  
 .887 -.5187 -.6503 -.6591 -.6249 -.5364 -.4370  
 .968 -.6089 -.6818 -.6881 -.6147 -.5291 -.4266

ALPHA ( 3 ) = -3.935 BETA ( 3 ) = 4.269 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5145 -.6337 -.6794 -.6474 -.5941 -.4653  
 .757 -.5253 -.6509 -.6960 -.6635 .0000 -.4624  
 .805 -.5193 -.6916 -.7285 -.6597 -.5792 -.4612  
 .887 -.6567 -.7300 -.7123 -.6650 -.5650 -.4547  
 .968 -.6882 -.7393 -.7307 -.6451 -.5486 -.4400

TABULATED PRESSURE DATA - CA148 ( AMES 11-073-1 )

(XEBK31)

AMES 11-073(CA148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 2 ) = -.002 BETA ( 1 ) = -3.870 MACH = .89780 Q = 598.63 P = 1060.9 RN/L = 3.5706

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5292 -.5388 -.5929 -.5843 -.5304 -.3915  
 .757 -.5139 -.5338 -.6160 -.5957 .0000 -.3830  
 .805 -.5183 -.5777 -.6403 -.6094 -.5049 -.3806  
 .897 -.5447 -.6452 -.6533 -.6016 -.4931 -.3770  
 .958 -.5965 -.6673 -.6566 -.5862 -.4862 -.3709

ALPHA ( 2 ) = .000 BETA ( 2 ) = .184 MACH = .89780 Q = 598.63 P = 1060.9 RN/L = 3.5706

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5549 -.5774 -.6032 -.6107 -.5653 -.4511  
 .757 -.5403 -.5954 -.6261 -.6280 .0000 -.4566  
 .805 -.5514 -.6067 -.6517 -.6273 -.5476 -.4381  
 .897 -.5922 -.6649 -.6577 -.6221 -.5374 -.4268  
 .958 -.6304 -.6832 -.6737 -.6152 -.5280 -.4199

ALPHA ( 2 ) = -.010 BETA ( 3 ) = 4.247 MACH = .89780 Q = 598.63 P = 1060.9 RN/L = 3.5706

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6124 -.6356 -.6805 -.6290 -.5582 -.4346  
 .757 -.5939 -.6300 -.6930 -.6374 .0000 -.4271  
 .805 -.6200 -.6824 -.6923 -.6469 -.5425 -.4306  
 .897 -.6507 -.7084 -.6973 -.6419 -.5352 -.4241  
 .958 -.6786 -.7114 -.6852 -.6277 -.5217 -.4050

ALPHA ( 3 ) = 3.384 BETA ( 1 ) = -3.872 MACH = .89870 Q = 599.00 P = 1059.5 RN/L = 3.5709

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6257 -.6259 -.6811 -.6301 -.5204 -.3680  
 .757 -.6146 -.6332 -.6847 -.6090 .0000 -.3668  
 .805 -.6012 -.6512 -.6651 -.6045 -.5034 -.3568  
 .897 -.6297 -.6319 -.6549 -.5889 -.4882 -.3522  
 .958 -.6564 -.6614 -.6604 -.5614 -.4714 -.3403

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XE8K31)

ALPHA ( 3 ) = 3.293 BETA ( 2 ) = .184 MACH = .89870 Q = 599.00 P = 1059.5 RN/L = 3.5709

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5501	-.5634	-.6030	-.6073	-.5480	-.4236
.757	-.5349	-.5734	-.6223	-.6218	.0000	-.4189
.805	-.5494	-.6130	-.6420	-.6097	-.5345	-.4189
.897	-.5791	-.6558	-.6586	-.6080	-.5157	-.4006
.968	-.6125	-.6780	-.6649	-.6000	-.5055	-.3902

ALPHA ( 3 ) = 3.979 BETA ( 3 ) = .4243 MACH = .89870 Q = 599.00 P = 1059.5 RN/L = 3.5709

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6076	-.6225	-.6463	-.5837	-.5121	-.4006
.757	-.6009	-.6493	-.6387	-.6046	.0000	-.4056
.805	-.6111	-.6673	-.6329	-.6029	-.4983	-.3982
.897	-.6412	-.6709	-.6346	-.6115	-.4874	-.3951
.968	-.6671	-.6675	-.6334	-.5809	-.4720	-.3802

ALPHA ( 4 ) = 8.057 BETA ( 1 ) = -3.860 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5394	-.5465	-.6001	-.5923	-.5314	-.3731
.757	-.5194	-.5610	-.6313	-.5120	.0000	-.3824
.805	-.5221	-.5962	-.6481	-.6115	-.5057	-.3709
.897	-.5494	-.6182	-.6369	-.5994	-.4931	-.3500
.968	-.5962	-.6691	-.6650	-.5906	-.4689	-.3336

ALPHA ( 4 ) = 8.064 BETA ( 2 ) = .187 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5401	-.5557	-.6017	-.5326	-.5422	-.4183
.757	-.5311	-.5661	-.6240	-.6081	.0000	-.4359
.805	-.5434	-.5943	-.6417	-.6119	-.5302	-.4064
.897	-.5665	-.6474	-.6521	-.6074	-.5044	-.3911
.968	-.6105	-.6625	-.6473	-.5909	-.4952	-.3906

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.059 BETA ( 3 ) = 4.245 MACH = .89807 Q = 598.57 P = 1060.2 RV/L = 3.5677  
 SECTION ( UPRIGHT HAND INSIDE )  
 Z/B/ .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV

.708 -.6087 -.6113 -.6506 -.5995 -.5260 -.3827  
 .757 -.5843 -.6353 -.6705 -.6137 .0000 -.3872  
 .805 -.5935 -.6717 -.6938 -.5939 -.4041 -.3908  
 .857 -.6334 -.6773 -.6529 -.6014 -.4593 -.3798  
 .909 -.6820 -.6835 -.6559 -.5819 -.4502 -.3504

ALPHA ( 5 ) = 11.980 BETA ( 1 ) = -3.854 MACH = .89717 Q = 598.01 P = 1061.4 RV/L = 3.5714  
 SECTION ( UPRIGHT HAND INSIDE )  
 Z/B/ .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV

.708 -.5584 -.5488 -.6085 -.6026 -.5393 -.3914  
 .757 -.5413 -.5675 -.6451 -.6260 .0000 -.3835  
 .805 -.5725 -.5974 -.6734 -.6312 -.5204 -.3859  
 .857 -.5553 -.6330 -.6923 -.6175 -.4934 -.3725  
 .909 -.5953 -.6943 -.6773 -.6055 -.4659 -.3583

ALPHA ( 5 ) = 11.990 BETA ( 2 ) = .184 MACH = .89717 Q = 598.01 P = 1061.4 RV/L = 3.5714  
 SECTION ( UPRIGHT HAND INSIDE )  
 Z/B/ .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV

.708 -.5948 -.5957 -.6451 -.6229 -.5541 -.4190  
 .757 -.5772 -.6032 -.6755 -.6468 .0000 -.4105  
 .805 -.5910 -.6462 -.6947 -.6433 -.5404 -.4026  
 .857 -.6189 -.6839 -.6934 -.6257 -.5247 -.3979  
 .909 -.6803 -.7333 -.6931 -.6115 -.4503 -.3353

ALPHA ( 5 ) = 11.975 BETA ( 3 ) = 4.259 MACH = .89717 Q = 598.01 P = 1061.4 RV/L = 3.5714  
 SECTION ( UPRIGHT HAND INSIDE )  
 Z/B/ .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV

.708 -.6193 -.6459 -.6937 -.6149 -.5334 -.4184  
 .757 -.6167 -.6543 -.6936 -.6310 .0000 -.4056  
 .805 -.6302 -.6901 -.6912 -.6409 -.5197 -.4082  
 .857 -.6400 -.7223 -.6991 -.6270 -.5132 -.4073  
 .909 -.6504 -.7703 -.6918 -.6123 -.4938 -.4085

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK32) ( 13 AUG 75 )

## REFERENCE DATA

REF = 2000.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 REF = 474.6000 IN. YMRP = .0000 IN. YO  
 REF = 935.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 35.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.052 BETA ( 1 ) = -7.850 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5224 -.5370 -.5840 -.5191 -.4024 -.3038  
 .757 -.5035 -.5431 -.6077 -.5400 .0000 -.3000  
 .805 -.5063 -.5935 -.6355 -.5319 -.3977 -.2988  
 .857 -.5170 -.6369 -.6542 -.5145 -.3941 -.3009  
 .909 -.5338 -.6703 -.6275 -.4775 -.3770 -.2990

ALPHA ( 1 ) = -4.036 BETA ( 2 ) = -3.835 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4815 -.5155 -.5650 -.5295 -.4187 -.2976  
 .757 -.4884 -.5393 -.6023 -.5413 .0000 -.2984  
 .805 -.4945 -.5853 -.6182 -.5351 -.4104 -.2976  
 .857 -.5377 -.6420 -.6277 -.5192 -.3905 -.2992  
 .909 -.4934 -.6655 -.6351 -.5021 -.3777 -.2937

ALPHA ( 1 ) = -4.020 BETA ( 3 ) = .192 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6239 -.6544 -.6172 -.5549 -.4485 -.2978  
 .757 -.6184 -.6323 -.6321 -.5654 .0000 -.3018  
 .805 -.6213 -.6322 -.6340 -.5354 -.4180 -.3064  
 .857 -.6742 -.6361 -.6228 -.5485 -.4024 -.2895  
 .909 -.6171 -.6503 -.6434 -.5232 -.3619 -.2958

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED L.S.

(XEBK32)

ALPHA ( 1 ) = -4.028 BETA ( 4 ) = 4.273 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5597 -.6130 -.6508 -.5746 -.4524 -.3093  
 .757 -.5574 -.6354 -.5686 -.5860 .0000 -.3081  
 .805 -.5833 -.6714 -.5841 -.4374 -.3119  
 .897 -.6203 -.6912 -.6795 -.5815 -.4255 -.3082  
 .959 -.6485 -.6934 -.6702 -.5596 -.4013 -.3179

ALPHA ( 1 ) = -4.045 BETA ( 5 ) = 8.346 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6528 -.6922 -.7196 -.6118 -.4627 -.3065  
 .757 -.6467 -.7275 -.7286 -.6301 .0000 -.3122  
 .805 -.6823 -.7442 -.7269 -.6258 -.4499 -.3163  
 .897 -.7051 -.7539 -.7395 -.6277 -.4326 -.3359  
 .959 -.7240 -.7406 -.7241 -.6042 -.3986 -.3500

ALPHA ( 2 ) = .034 BETA ( 1 ) = -7.883 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5551 -.5761 -.6413 -.5595 -.4054 -.2576  
 .757 -.5409 -.6038 -.6532 -.5744 .0000 -.2554  
 .805 -.5487 -.6652 -.6927 -.5699 -.3840 -.2597  
 .897 -.5919 -.6955 -.6889 -.5594 -.3632 -.2743  
 .959 -.6399 -.7093 -.6677 -.5095 -.3547 -.2656

ALPHA ( 2 ) = .043 BETA ( 2 ) = -3.857 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5110 -.5459 -.6106 -.5300 -.4094 -.2786  
 .757 -.5025 -.5721 -.6242 -.5509 .0000 -.2784  
 .805 -.5143 -.6207 -.6472 -.5474 -.3880 -.2762  
 .897 -.5737 -.6694 -.6569 -.5283 -.3787 -.2730  
 .959 -.6169 -.6774 -.6430 -.4901 -.3535 -.2744

TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
 ALPHA ( 2 ) = .045 BETA ( 3 ) = .185 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132  
 (XEBK32)

SECTION ( UPRIGHT HAND INSIDE )  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5300 -.5696 -.6150 -.5494 -.4470 -.2870  
 .757 -.5196 -.5953 -.6407 -.5675 .0000 -.3001  
 .805 -.5470 -.6351 -.6569 -.5649 -.4258 -.2936  
 .857 -.5781 -.6620 -.6671 -.5606 -.4073 -.2893  
 .909 -.6227 -.6701 -.6419 -.5344 -.3754 -.2893

ALPHA ( 2 ) = .041 BETA ( 4 ) = .251 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( UPRIGHT HAND INSIDE )  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.5703 -.6172 -.6491 -.5954 -.4532 -.3011  
 .757 -.5624 -.6405 -.6752 -.5996 .0000 -.3075  
 .805 -.5251 -.6795 -.6814 -.5972 -.4344 -.3030  
 .857 -.6264 -.6227 -.5857 -.5818 -.4280 -.3093  
 .909 -.6450 -.6510 -.6724 -.5571 -.3967 -.3040

ALPHA ( 2 ) = .035 BETA ( 5 ) = .8312 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( UPRIGHT HAND INSIDE )  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6709 -.7079 -.7245 -.6352 -.4804 -.3174  
 .757 -.6646 -.7375 -.7275 -.6381 .0000 -.3131  
 .805 -.6925 -.7305 -.7339 -.6479 -.4699 -.3224  
 .857 -.7282 -.7345 -.7543 -.6657 -.4554 -.3271  
 .909 -.7435 -.7522 -.7580 -.6399 -.4248 -.3377

ALPHA ( 3 ) = .014 BETA ( 1 ) = -.7879 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147

SECTION ( UPRIGHT HAND INSIDE )  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6157 -.6353 -.6556 -.5931 -.4194 -.2688  
 .757 -.6085 -.6326 -.6325 -.5941 .0000 -.2629  
 .805 -.6000 -.6403 -.6403 -.5342 -.4166 -.2455  
 .857 -.6031 -.6553 -.6341 -.5776 -.3839 -.2372  
 .909 -.6032 -.6557 -.6337 -.5359 -.3573 -.2372

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TABLED PRESSURE STA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R OPB SPEED BRAKE (XEBK32)

ALPHA 31 = 4.015 BETA 120 = 3.955 MACH = .59602 O = 593.50 P = 2386.4 RV/L = 4.8147

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 31 3170 4120 5070 6020 6970 7920

708 -5350 -5633 -6298 -5546 -4105 -2622  
709 -5318 -5597 -6222 -5530 -4000 -2607  
710 -5281 -5561 -6193 -5491 -3915 -2622  
711 -5244 -5524 -6165 -5454 -3830 -2508  
712 -5207 -5487 -6138 -5417 -3745 -2553  
713 -5170 -5450 -6111 -5380 -3660 -2553

ALPHA 31 = 4.015 BETA 130 = .135 MACH = .59602 O = 593.50 P = 2386.4 RV/L = 4.8147

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 31 3170 4120 5070 6020 6970 7920

708 -5333 -5633 -6201 -5551 -4413 -2848  
709 -5296 -5596 -6164 -5514 -4328 -2884  
710 -5259 -5559 -6127 -5477 -4243 -2893  
711 -5222 -5522 -6090 -5440 -4158 -2814  
712 -5185 -5485 -6053 -5403 -4073 -2837  
713 -5148 -5448 -6016 -5366 -3988 -2837

ALPHA 31 = 4.015 BETA 140 = 4.243 MACH = .59602 O = 593.50 P = 2386.4 RV/L = 4.8147

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 31 3170 4120 5070 6020 6970 7920

708 -5333 -5633 -6235 -5728 -4478 -2891  
709 -5296 -5596 -6198 -5691 -4393 -2910  
710 -5259 -5559 -6161 -5654 -4308 -2939  
711 -5222 -5522 -6124 -5617 -4223 -2923  
712 -5185 -5485 -6087 -5580 -4138 -2931  
713 -5148 -5448 -6050 -5543 -4053 -2931

ALPHA 31 = 4.015 BETA 150 = 5.295 MACH = .59602 O = 593.50 P = 2386.4 RV/L = 4.8147

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z 31 3170 4120 5070 6020 6970 7920

708 -5333 -5633 -6235 -5728 -4478 -2891  
709 -5296 -5596 -6198 -5691 -4393 -2910  
710 -5259 -5559 -6161 -5654 -4308 -2939  
711 -5222 -5522 -6124 -5617 -4223 -2923  
712 -5185 -5485 -6087 -5580 -4138 -2931  
713 -5148 -5448 -6050 -5543 -4053 -2931



DATE 14 FEB 76 INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK32)

ALPHA ( 4 ) = 9.080 BETA ( 1 ) = -7.877 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708 -.6010 -.5528 -.7275 -.5115 -.2940 -.2610  
 .757 -.6789 -.6995 -.7507 -.5801 .0000 -.2043  
 .805 -.6137 -.7488 -.7690 -.5126 -.2893 -.2124  
 .857 -.6782 -.8305 -.7364 -.5489 -.2710 -.2119  
 .908 -.7363 -.8440 -.6613 -.4385 -.2679 -.2244

ALPHA ( 2 ) = 8.089 BETA ( 2 ) = -3.849 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708 -.6288 -.5578 -.6157 -.5465 -.4045 -.2427  
 .757 -.6033 -.6735 -.6441 -.5556 .0000 -.2538  
 .805 -.6217 -.7446 -.6645 -.5537 -.3657 -.2621  
 .857 -.6751 -.8478 -.7316 -.5428 -.3775 -.2513  
 .908 -.6838 -.8456 -.6435 -.4510 -.3427 -.2563

ALPHA ( 3 ) = 8.087 BETA ( 3 ) = .189 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708 -.5245 -.5559 -.6117 -.5466 -.4336 -.2819  
 .757 -.6120 -.6930 -.6361 -.5613 .0000 -.2855  
 .805 -.6288 -.7849 -.6845 -.5528 -.4132 -.2888  
 .857 -.6715 -.8477 -.6434 -.4504 -.3056 -.2832  
 .908 -.6788 -.8455 -.6355 -.4514 -.3331 -.2898

ALPHA ( 4 ) = 8.088 BETA ( 4 ) = 4.243 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8181

SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708 -.5382 -.6327 -.6478 -.5522 -.4282 -.2904  
 .757 -.6084 -.6940 -.6616 -.5703 .0000 -.2931  
 .805 -.6211 -.7838 -.6845 -.5528 -.4132 -.2888  
 .857 -.6715 -.8477 -.6434 -.4504 -.3056 -.2832  
 .908 -.6788 -.8455 -.6355 -.4514 -.3331 -.2898

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ALPHA ( 4 ) = 8.032 BETA ( 5 ) = 8.301 MACH = .59636 Q = 594.21 P = 2386.7 RN/L = 4.8175  
(XEBK32)

SECTION 1 UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
709 -.5455 -.6780 -.6816 -.5886 -.4265 -.3129  
757 -.5397 -.7093 -.6939 -.5737 .0000 -.3146  
805 -.6615 -.7320 -.7329 -.5770 -.4109 -.3151  
857 -.6349 -.7203 -.7024 -.6324 -.4210 -.3219  
909 -.7135 -.7243 -.6339 -.5571 -.3568 -.3424

ALPHA ( 5 ) = 12.017 BETA ( 1 ) = -7.830 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 1 UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
709 -.6104 -.6457 -.7472 -.5306 -.2742 -.1933  
757 -.5366 -.6714 -.7512 -.5275 .0000 -.2026  
805 -.6159 -.7460 -.7809 -.5029 -.2740 -.2045  
857 -.6713 -.7830 -.7754 -.4587 -.2564 -.2162  
909 -.7552 -.8435 -.7078 -.3978 -.2539 -.2282

ALPHA ( 5 ) = 12.037 BETA ( 2 ) = -3.825 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 1 UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
709 -.5239 -.5620 -.6109 -.5514 -.3983 -.2393  
757 -.6104 -.6912 -.6433 -.5625 .0000 -.2510  
805 -.5304 -.6422 -.6576 -.5495 -.3665 -.2548  
857 -.6739 -.6728 -.6671 -.5428 -.3535 -.2369  
909 -.6309 -.6890 -.6455 -.4998 -.3339 -.2480

ALPHA ( 5 ) = 12.033 BETA ( 3 ) = .185 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 1 UPRIGHT HAWD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
709 -.6412 -.6503 -.6129 -.5577 -.4402 -.2770  
757 -.5125 -.6980 -.6360 -.5857 .0000 -.2778  
805 -.6434 -.6466 -.6426 -.5564 -.4163 -.2553  
857 -.6590 -.6612 -.6633 -.5562 -.4049 -.2778  
909 -.6190 -.6118 -.6360 -.5130 -.3760 -.2825

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK32)

ALPHA = 12.033 BETA = 4) = 4.256 MACH = .59526 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	CP	3070	4120	5070	6020	6970	7920
1.00	-.6883	-.6207	-.5515	-.5111	-.4144	-.2862	
1.05	-.6953	-.6307	-.5650	-.5211	-.4000	-.2957	
1.10	-.7023	-.6418	-.5739	-.5270	-.4056	-.3080	
1.15	-.7093	-.6513	-.5813	-.5313	-.4055	-.3054	
1.20	-.7163	-.6583	-.5853	-.5353	-.4055	-.3054	

ALPHA = 5) = 12.024 BETA = 5) = 8.318 MACH = .59526 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 2 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	CP	3070	4120	5070	6020	6970	7920
1.00	-.6537	-.5531	-.4550	-.4076	-.4092	-.3009	
1.05	-.6617	-.5633	-.4643	-.4138	-.4000	-.2957	
1.10	-.6697	-.5738	-.4738	-.4208	-.3949	-.3076	
1.15	-.6777	-.5818	-.4818	-.4268	-.4054	-.3253	
1.20	-.6857	-.5898	-.4898	-.4328	-.4054	-.3253	

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK33) ( 13 AUG 75 )

## REFERENCE DATA

SECF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 SECF = 935.5800 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0330

## PARAMETRIC DATA

RUDDER = 10.000 SPDRBK = 35.000  
 BDFLAP = 16.300 L-ELVN = .000  
 R-ELVN = 10.000 MACH = 1.400

ALPHA ( 1 ) = -4.110 BETA ( 1 ) = -3.848 MACH = 1.3952 0 = 599.12 P = 439.71 RN/L = 2.9043

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5556 -.5440 -.5564 -.5573 -.5422 -.5211  
 .757 -.5345 -.5454 -.5699 -.5516 .0000 -.5091  
 .805 -.5343 -.5480 -.5630 -.5533 -.5377 -.4965  
 .887 -.5378 -.5550 -.5644 -.5552 -.5315 -.4923  
 .969 -.5381 -.5591 -.5647 -.5573 -.5254 -.4890

ALPHA ( 1 ) = -4.105 BETA ( 2 ) = .195 MACH = 1.3952 0 = 599.12 P = 439.71 RN/L = 2.9043

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5435 -.5429 -.5524 -.5552 -.5379 -.5051  
 .757 -.5351 -.5438 -.5559 -.5507 .0000 -.4954  
 .805 -.5337 -.5474 -.5632 -.5512 -.5294 -.4937  
 .887 -.5375 -.5531 -.5601 -.5521 -.5212 -.4856  
 .968 -.5322 -.5554 -.5627 -.5533 -.5103 -.4868

ALPHA ( 1 ) = -4.114 BETA ( 3 ) = 4.277 MACH = 1.3952 0 = 599.12 P = 439.71 RN/L = 2.9043

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5522 -.5463 -.5514 -.5628 -.5307 -.4832  
 .757 -.5403 -.5467 -.5671 -.5576 .0000 -.4813  
 .805 -.5386 -.5516 -.5711 -.5584 -.5174 -.4770  
 .887 -.5405 -.5649 -.5723 -.5553 -.5106 -.4805  
 .969 -.5412 -.5712 -.5730 -.5553 -.4971 -.4990

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ALPHA ( 2 ) = -0.049 BETA ( 1 ) = -3.866 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098  
(XESK33)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5509 -.5507 -.5603 -.5622 -.5482 -.5295  
.757 -.5408 -.5510 -.5641 -.5592 .0000 -.5154  
.805 -.5411 -.5538 -.5686 -.5584 -.5449 -.5017  
.857 -.5446 -.5644 -.5697 -.5596 -.5388 -.5010  
.908 -.5460 -.5674 -.5700 -.5629 -.5329 -.4951

ALPHA ( 2 ) = -.046 BETA ( 2 ) = .181 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5553 -.5480 -.5607 -.5635 -.5491 -.5188  
.757 -.5390 -.5494 -.5649 -.5590 .0000 -.5081  
.805 -.5374 -.5539 -.5675 -.5597 -.5391 -.4942  
.857 -.5424 -.5518 -.5669 -.5602 -.5337 -.4901  
.908 -.5438 -.5664 -.5711 -.5616 -.5354 -.4846

ALPHA ( 2 ) = -.050 BETA ( 3 ) = 4.255 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5641 -.5537 -.5691 -.5719 -.5497 -.4990  
.757 -.5469 -.5540 -.5748 -.5694 .0000 -.4950  
.805 -.5455 -.5575 -.5778 -.5691 -.5352 -.4850  
.857 -.5490 -.5699 -.5797 -.5662 -.5286 -.4835  
.908 -.5474 -.5750 -.5790 -.5693 -.5170 -.4891

ALPHA ( 3 ) = 3.895 BETA ( 1 ) = -3.859 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5705 -.5510 -.5721 -.5744 -.5579 -.5367  
.757 -.5511 -.5617 -.5761 -.5721 .0000 -.5241  
.805 -.5516 -.5650 -.5792 -.5716 -.5362 -.5107  
.857 -.5559 -.5719 -.5810 -.5723 -.5479 -.5075  
.908 -.5549 -.5743 -.5793 -.5675 -.5157 -.5007

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK33)

ALPHA ( 3 ) = 3.895 BETA ( 2 ) = .190 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5603 -.5530 -.5664 -.5698 -.5563 -.5276  
 .757 -.5445 -.5536 -.5714 -.5664 .0000 -.5139  
 .805 -.5445 -.5570 -.5742 -.5664 -.5489 -.5004  
 .887 -.5490 -.5643 -.5757 -.5667 -.5430 -.4956  
 .968 -.5485 -.5671 -.5755 -.5695 -.5383 -.4878

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.246 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5675 -.5578 -.5697 -.5753 -.5642 -.5224  
 .757 -.5536 -.5578 -.5732 -.5739 .0000 -.5089  
 .805 -.5522 -.5592 -.5779 -.5742 -.5524 -.4997  
 .887 -.5531 -.5666 -.5801 -.5737 -.5472 -.4976  
 .968 -.5430 -.5721 -.5779 -.5756 -.5463 -.4879

ALPHA ( 4 ) = 7.947 BETA ( 1 ) = -3.865 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5844 -.5743 -.5841 -.5867 -.5709 -.5452  
 .757 -.5646 -.5754 -.5888 -.5851 .0000 -.5356  
 .805 -.5646 -.5725 -.5829 -.5851 -.5634 -.5240  
 .887 -.5684 -.5687 -.5833 -.5851 -.5560 -.5236  
 .968 -.5684 -.5825 -.5847 -.5855 -.5549 -.5158

ALPHA ( 4 ) = 7.946 BETA ( 2 ) = .185 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.706 -.5595 -.5536 -.5769 -.5807 -.5676 -.5390  
 .757 -.5555 -.5650 -.5811 -.5776 .0000 -.5258  
 .805 -.5551 -.5695 -.5840 -.5790 -.5603 -.5158  
 .887 -.5585 -.5746 -.5849 -.5788 -.5549 -.5094  
 .968 -.5579 -.5775 -.5847 -.5816 -.5527 -.5009

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK33)

ALPHA ( 4 ) = 7.944 BETA ( 3 ) = 4.238 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV					
.703	-.5747	-.5636	-.5729	-.5800	-.5729
.757	-.5593	-.5631	-.5769	-.5785	-.5298
.806	-.5591	-.5643	-.5804	-.5795	-.5192
.857	-.5577	-.5703	-.5829	-.5800	-.5160
.908	-.5521	-.5762	-.5923	-.5790	-.5056

ALPHA ( 5 ) = 11.859 BETA ( 1 ) = -3.851 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV					
.708	-.6008	-.5859	-.5938	-.5983	-.5801
.757	-.5777	-.5864	-.5985	-.5954	-.5461
.806	-.5772	-.5895	-.6004	-.5951	-.5742
.857	-.5803	-.5965	-.6025	-.5952	-.5330
.908	-.5757	-.6004	-.6025	-.5959	-.5650

ALPHA ( 5 ) = 11.855 BETA ( 2 ) = .189 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV					
.703	-.5921	-.5714	-.5825	-.5863	-.5754
.757	-.5646	-.5724	-.5865	-.5849	-.5352
.806	-.5639	-.5748	-.5895	-.5854	-.5259
.857	-.5659	-.5813	-.5903	-.5863	-.5220
.908	-.5646	-.5855	-.5889	-.5891	-.5137

ALPHA ( 5 ) = 11.862 BETA ( 3 ) = 4.253 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV					
.703	-.5892	-.5755	-.5841	-.5934	-.5967
.757	-.5722	-.5765	-.5884	-.5915	-.5461
.806	-.5706	-.5774	-.5895	-.5929	-.5350
.857	-.5694	-.5821	-.5955	-.5926	-.5740
.908	-.5643	-.5851	-.5953	-.5910	-.5219

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK33)

ALPHA ( 6 ) = 15.849 BETA ( 1 ) = -3.830 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6199	-.6010	-.6122	-.6165	-.5853	-.5456
.757	-.5956	-.6015	-.6179	-.6122	.0000	-.5385
.805	-.5925	-.6050	-.6217	-.6124	-.5775	-.5498
.887	-.5954	-.6158	-.6235	-.6103	-.5697	-.5491
.968	-.5958	-.6214	-.6240	-.6068	-.5595	-.5491

ALPHA ( 6 ) = 15.859 BETA ( 2 ) = .186 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5921	-.5907	-.5930	-.5947	-.5816	-.5556
.757	-.5748	-.5803	-.5965	-.5928	.0000	-.5448
.805	-.5739	-.5850	-.5984	-.5928	-.5760	-.5348
.887	-.5770	-.5944	-.5991	-.5930	-.5715	-.5340
.968	-.5781	-.5968	-.5991	-.5949	-.5664	-.5267

ALPHA ( 6 ) = 15.851 BETA ( 3 ) = 4.283 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5992	-.5999	-.5973	-.6048	-.5963	-.5661
.757	-.5939	-.5903	-.6010	-.6029	.0000	-.5609
.805	-.5832	-.5912	-.6036	-.6034	-.5220	-.5501
.887	-.5932	-.5951	-.6055	-.6039	-.5852	-.5446
.968	-.5823	-.5939	-.6043	-.6055	-.5841	-.5380



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK34) ( 13 AUG 75 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 2822.000 SQ.FT.    YMRP = 1076.6800 IN. X0  
 LREF = 474.8200 IN.    YMRP = .0000 IN. Y0  
 BREF = 935.8300 IN.    ZMRP = 375.0000 IN. Z0  
 SCALE = .0000

RUDDER = 10.000    SPDRBK = 35.000  
 BDFLAP = 16.300    L-ELVN = .000  
 R-ELVN = 10.000    MACH = 1.250

ALPHA ( 1 ) = -4.054    BETA ( 1 ) = -3.845    MACH = 1.2480    Q = 600.05    P = 550.40    RN/L = 3.0174  
 ALPHA ( 2 ) = -4.041    BETA ( 2 ) = .192    MACH = 1.2480    Q = 600.05    P = 550.40    RN/L = 3.0174

## SECTION ( 1 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/B    .3170    .4120    .5070    .6020    .6970    .7920

## X/CV

.708    -.6624    -.6548    -.6711    -.6702    -.6555    -.6182  
 .757    -.6545    -.6537    -.6635    -.6750    .0000    -.6193  
 .805    -.6532    -.6572    -.6863    -.6760    -.6524    -.6014  
 .897    -.6545    -.6807    -.6996    -.6762    -.6476    -.6041  
 .958    -.6351    -.6959    -.6866    -.6790    -.6453    -.5944

## SECTION ( 2 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/B    .3170    .4120    .5070    .6020    .6970    .7920

## X/CV

.708    -.6624    -.6548    -.6711    -.6702    -.6555    -.6182  
 .757    -.6545    -.6537    -.6635    -.6750    .0000    -.6012  
 .805    -.6523    -.6500    -.6920    -.6592    -.6430    -.5875  
 .897    -.6459    -.6714    -.6843    -.6592    -.6366    -.5856  
 .958    -.6444    -.6759    -.6791    -.6719    -.6326    -.5773

## SECTION ( 3 ) RIGHT HAND INSIDE    DEPENDENT VARIABLE CP

Z/B    .3170    .4120    .5070    .6020    .6970    .7920

## X/CV

.708    -.6637    -.6569    -.6833    -.6925    -.6595    -.6093  
 .757    -.6576    -.6678    -.6933    -.6929    .0000    -.5968  
 .805    -.6557    -.6711    -.6941    -.6929    -.6425    -.5880  
 .897    -.6938    -.6817    -.6937    -.6818    -.6330    -.5863  
 .958    -.6529    -.6654    -.6929    -.6851    -.6221    -.5787

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK34)

ALPHA ( 2 ) = -.032 BETA ( 1 ) = -3.867 MACH = 1.2476 Q = 600.19 P = 550.87 RN/L = 3.0137

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6962 -.6715 -.6842 -.6892 -.6703 -.6426  
 .757 -.6597 -.6708 -.6885 -.6873 .0000 -.6258  
 .805 -.6604 -.6739 -.6944 -.6890 -.6630 -.6124  
 .887 -.6616 -.6818 -.6968 -.6894 -.6589 -.6106  
 .968 -.6420 -.6553 -.6958 -.6866 -.6506 -.6037

ALPHA ( 2 ) = -.029 BETA ( 2 ) = .184 MACH = 1.2476 Q = 600.19 P = 550.87 RN/L = 3.0137

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6762 -.6595 -.6736 -.6773 -.6613 -.6210  
 .757 -.6639 -.6538 -.6804 -.6764 .0000 -.6052  
 .805 -.6493 -.6636 -.6849 -.6773 -.6476 -.5924  
 .887 -.6509 -.6762 -.6589 -.6769 -.6415 -.5931  
 .968 -.6476 -.6802 -.6849 -.6797 -.6405 -.5848

ALPHA ( 2 ) = -.035 BETA ( 3 ) = 4.251 MACH = 1.2476 Q = 600.19 P = 550.87 RN/L = 3.0137

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6755 -.6710 -.6959 -.6880 -.6722 -.6193  
 .757 -.6625 -.6710 -.6916 -.6904 .0000 -.6003  
 .805 -.6516 -.6738 -.6958 -.6899 -.6549 -.5921  
 .887 -.6525 -.6931 -.7005 -.6887 -.6457 -.5928  
 .968 -.6450 -.6915 -.6934 -.6925 -.6431 -.5835

ALPHA ( 3 ) = 3.925 BETA ( 1 ) = -3.871 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6976 -.6943 -.6990 -.7032 -.6874 -.6491  
 .757 -.6755 -.6858 -.7027 -.7016 .0000 -.6365  
 .805 -.6732 -.6972 -.7046 -.7032 -.6772 -.6238  
 .887 -.6732 -.6955 -.7084 -.7051 -.6727 -.6198  
 .968 -.6421 -.7211 -.7070 -.7042 -.6763 -.6141

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TABULATED PRESSURE DATA - 0A148 ( AHES 11-073-1 )

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ALPHA ( 3 ) = 3.924 BETA ( 2 ) = .180 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145  
(XEBK34)

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6924 -.6718 -.6854 -.6894 -.6738 -.6290  
.757 -.6533 -.6723 -.6910 -.6989 -.6900 -.6146  
.805 -.6514 -.6719 -.6950 -.6901 -.6503 -.6044  
.837 -.6531 -.6835 -.6993 -.6906 -.6551 -.6019  
.869 -.6584 -.6980 -.6981 -.6932 -.6553 -.5901

ALPHA ( 3 ) = 3.934 BETA ( 3 ) = 4.244 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6730 -.6522 -.6793 -.6876 -.6929 -.6240  
.757 -.6521 -.6597 -.6938 -.6899 -.6900 -.6080  
.805 -.6529 -.6585 -.6902 -.6916 -.6559 -.5995  
.837 -.6530 -.6759 -.6955 -.6932 -.6511 -.5970  
.869 -.6106 -.6253 -.6275 -.6524 -.6561 -.5875

ALPHA ( 4 ) = 7.993 BETA ( 1 ) = -3.825 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0139

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7113 -.6971 -.7100 -.7164 -.6991 -.6556  
.757 -.6958 -.6973 -.7159 -.7154 -.6900 -.6445  
.805 -.6834 -.7004 -.7219 -.7176 -.6871 -.6313  
.837 -.6859 -.7079 -.7242 -.7179 -.6814 -.6280  
.869 -.6756 -.7155 -.7214 -.7204 -.6821 -.6205

ALPHA ( 4 ) = 7.987 BETA ( 2 ) = .196 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6852 -.6769 -.6933 -.6954 -.6818 -.6343  
.757 -.6536 -.6769 -.6974 -.6954 -.6900 -.6184  
.805 -.6521 -.6802 -.7015 -.6976 -.6599 -.6102  
.837 -.6701 -.6864 -.7054 -.6932 -.6531 -.6059  
.869 -.6525 -.6845 -.7055 -.6933 -.6571 -.5955

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 1.998 BETA ( 3 ) = 4.237 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135  
 (XEBK34)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6735 -.6698 -.6792 -.6867 -.6956 -.6353  
 .757 -.6635 -.6707 -.6841 -.6898 -.6900 -.6209  
 .805 -.6512 -.6593 -.6903 -.6926 -.6893 -.6131  
 .857 -.6800 -.6770 -.6971 -.6924 -.6650 -.6071  
 .909 -.6661 -.6657 -.6955 -.6844 -.6714 -.5979

ALPHA ( 5 ) = 1.921 BETA ( 1 ) = -3.850 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.7133 -.7019 -.7175 -.7208 -.6958 -.6512  
 .757 -.6910 -.7042 -.7229 -.7206 -.6900 -.6448  
 .805 -.6893 -.7068 -.7291 -.7238 -.6931 -.6309  
 .857 -.6932 -.7170 -.7325 -.7175 -.6734 -.6252  
 .909 -.6922 -.7216 -.7300 -.7136 -.6692 -.6172

ALPHA ( 5 ) = 1.932 BETA ( 2 ) = .189 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6834 -.6892 -.7005 -.7024 -.6973 -.6489  
 .757 -.6813 -.6839 -.7051 -.7084 -.6900 -.6340  
 .805 -.6802 -.6911 -.7095 -.7096 -.6934 -.6267  
 .857 -.6907 -.7070 -.7127 -.7110 -.6829 -.6215  
 .909 -.6709 -.7011 -.7141 -.7063 -.6872 -.6144

ALPHA ( 5 ) = 1.924 BETA ( 3 ) = 4.253 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6838 -.6929 -.6994 -.7070 -.7075 -.6558  
 .757 -.6949 -.6931 -.7025 -.7092 -.6900 -.6516  
 .805 -.6716 -.6916 -.7092 -.7124 -.6959 -.6435  
 .857 -.6933 -.6964 -.7143 -.7112 -.6933 -.6352  
 .909 -.6703 -.7024 -.7151 -.7061 -.6959 -.6321

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK35) ( 13 AUG 75 )

REFERENCE DATA

REF = 1076.6800 IN. XO  
LREF = 1076.6800 IN. YO  
DREF = 375.0000 IN. ZO  
SCALE = 1.0000

PARAMETRIC DATA  
RUDDER = 10.000 SPOBRK = 35.000  
BOFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = 1.100

ALPHA ( 1 ) = 4.064 BETA ( 1 ) = -3.846 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-B 3170 4120 5070 6020 6970 7920

1.033 -1.8235 -1.8297 -1.8271 -1.8302 -1.8127 -1.7741  
1.037 -1.8336 -1.8390 -1.8342 -1.8309 -1.8000 -1.7569  
1.045 -1.8332 -1.8111 -1.8423 -1.8307 -1.8016 -1.7436  
1.047 -1.8335 -1.8116 -1.8494 -1.8281 -1.7968 -1.7372  
1.053 -1.8360 -1.8317 -1.8451 -1.8274 -1.7945 -1.7261

ALPHA ( 2 ) = 4.022 BETA ( 2 ) = .195 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-B 3170 4120 5070 6020 6970 7920

1.033 -1.8046 -1.8119 -1.8147 -1.8204 -1.8043 -1.7611  
1.037 -1.8095 -1.8073 -1.8228 -1.8009 -1.8000 -1.7436  
1.045 -1.8043 -1.8111 -1.8308 -1.8218 -1.7992 -1.7348  
1.047 -1.8032 -1.8112 -1.8373 -1.8113 -1.7961 -1.7329  
1.053 -1.8032 -1.8068 -1.8365 -1.8136 -1.7845 -1.7197

ALPHA ( 3 ) = 4.062 BETA ( 3 ) = 4.274 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z-B 3170 4120 5070 6020 6970 7920

1.033 -1.8390 -1.8392 -1.8147 -1.8225 -1.8355 -1.7473  
1.037 -1.8396 -1.8392 -1.8223 -1.8266 -1.8000 -1.7296  
1.045 -1.8391 -1.8392 -1.8318 -1.8231 -1.7918 -1.7218  
1.047 -1.8390 -1.8392 -1.8326 -1.8265 -1.7855 -1.7175  
1.053 -1.8390 -1.8390 -1.8314 -1.8114 -1.7847 -1.7114

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(XEBK35)  
AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
P = 708.12 RN/L = 3.1793

ALPHA ( 2 ) = -.023 BETA ( 1 ) = -3.863 MACH = 1.0993 O = 599.08 P = 708.12 RN/L = 3.1793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
708 -.8139 -.7964 -.8098 -.8175 -.8029 -.7625  
757 -.7817 -.7873 -.8175 -.8201 -.8000 -.7461  
805 -.7804 -.7959 -.8278 -.8201 -.7930 -.7346  
847 -.7823 -.8030 -.8403 -.8187 -.7873 -.7269  
889 -.6949 -.8257 -.9270 -.8112 -.7878 -.7210

ALPHA ( 2 ) = -.023 BETA ( 2 ) = .185 MACH = 1.0993 O = 599.08 P = 708.12 RN/L = 3.1793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
708 -.8073 -.7947 -.8054 -.8141 -.8002 -.7576  
757 -.7804 -.7931 -.8113 -.8163 -.8000 -.7382  
805 -.7803 -.7932 -.8217 -.8157 -.7850 -.7332  
847 -.7745 -.7975 -.8309 -.8157 -.7817 -.7277  
889 -.6825 -.8198 -.9302 -.8044 -.7813 -.7207

ALPHA ( 2 ) = -.024 BETA ( 3 ) = 4.249 MACH = 1.0993 O = 599.08 P = 708.12 RN/L = 3.1793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
708 -.7920 -.7820 -.7979 -.8100 -.7984 -.7364  
757 -.7720 -.7820 -.8072 -.8133 -.8000 -.7135  
805 -.7718 -.7829 -.8228 -.8180 -.7769 -.7076  
847 -.7621 -.7904 -.8317 -.8124 -.7743 -.7203  
889 -.6829 -.8153 -.9331 -.7934 -.7726 -.7193

ALPHA ( 3 ) = 3.952 BETA ( 1 ) = -3.863 MACH = 1.0983 O = 598.70 P = 709.06 RN/L = 3.1785

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
708 -.7854 -.7820 -.8091 -.8145 -.7923 -.7494  
757 -.7735 -.7817 -.8072 -.8163 -.8000 -.7235  
805 -.7735 -.7830 -.8228 -.8122 -.7795 -.7203  
847 -.7628 -.7904 -.8304 -.8104 -.7771 -.7157  
889 -.6823 -.8153 -.9323 -.7934 -.7747 -.7197

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK35)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .133 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X104

.709 -.8012 -.7910 -.8033 -.8154 -.7979 -.7508  
 .757 -.7825 -.7912 -.8081 -.8159 -.8000 -.7340  
 .805 -.7759 -.7733 -.8213 -.8192 -.7809 -.7273  
 .887 -.7707 -.7733 -.8329 -.8171 -.7753 -.7229  
 .959 -.6934 -.6827 -.6503 -.6308 -.7756 -.7201

ALPHA ( 3 ) = 3.952 BETA ( 3 ) = 4.243 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X104

.709 -.7758 -.7638 -.7847 -.8001 -.7930 -.7156  
 .757 -.7612 -.7590 -.7953 -.8048 -.8000 -.6936  
 .805 -.7522 -.7582 -.8009 -.8124 -.7546 -.6900  
 .887 -.7573 -.7571 -.8159 -.8224 -.7503 -.6985  
 .959 -.6673 -.6614 -.6314 -.6124 -.7622 -.6712

ALPHA ( 3 ) = 8.032 BETA ( 1 ) = -3.862 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1769

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X104

.709 -.6070 -.7551 -.8174 -.8200 -.8001 -.7469  
 .757 -.7358 -.7355 -.8235 -.8212 -.8000 -.7255  
 .805 -.7219 -.7299 -.8321 -.8243 -.7840 -.7191  
 .887 -.7902 -.8112 -.8345 -.8189 -.7779 -.7159  
 .959 -.7123 -.6916 -.6323 -.6151 -.7734 -.7066

ALPHA ( 3 ) = 8.039 BETA ( 2 ) = .183 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1769

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X104

.709 -.6713 -.7098 -.7211 -.7367 -.7297 -.7255  
 .757 -.7518 -.7496 -.7500 -.7575 -.7500 -.7093  
 .805 -.7318 -.7311 -.7319 -.7319 -.7319 -.7024  
 .887 -.7311 -.7311 -.7311 -.7311 -.7311 -.7024  
 .959 -.6911 -.6911 -.6911 -.6911 -.6911 -.6652

DATE 14 FEB 78 CALCULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

ALPHA ( 1 ) = 8.037 BETA ( 3 ) = 4.237 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1753  
(XEBK35)

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z:BV .3170 .4120 .5070 .6020 .6970 .7920

NOV  
1.708 -.7458 -.7387 -.7575 -.7722 -.7537 -.7537 -.6744  
1.757 -.7316 -.7406 -.7589 -.7781 .0000 -.0000 -.6616  
1.805 -.7314 -.7432 -.7610 -.7812 -.7352 -.7352 -.6580  
1.857 -.7222 -.7254 -.7343 -.7550 -.7234 -.7234 -.6520  
1.908 -.6542 -.6512 -.6512 -.6512 -.6512 -.6512 -.6434

ALPHA ( 5 ) = 11.975 BETA ( 1 ) = -3.842 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z:BV .3170 .4120 .5070 .6020 .6970 .7920

NOV  
1.708 -.6152 -.6222 -.6280 -.6227 -.7917 -.7917 -.7263  
1.757 -.7932 -.8008 -.8077 -.8034 .0000 .0000 .7080  
1.805 -.7934 -.8031 -.8054 -.8032 -.7654 -.7654 -.6990  
1.857 -.7936 -.8057 -.8083 -.8211 -.7547 -.7547 -.6947  
1.908 -.6033 -.6056 -.6056 -.6237 -.7452 -.7452 -.6854

ALPHA ( 5 ) = 11.966 BETA ( 2 ) = .189 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z:BV .3170 .4120 .5070 .6020 .6970 .7920

NOV  
1.708 -.7702 -.7656 -.7637 -.7909 -.7739 -.7739 -.7255  
1.757 -.7559 -.7608 -.7625 -.7949 .0000 .0000 .7087  
1.805 -.7548 -.7596 -.7613 -.7937 -.7606 -.7606 .7023  
1.857 -.7549 -.7671 -.7683 -.7959 -.7525 -.7525 .6977  
1.908 -.6887 -.6816 -.6826 -.7333 -.7537 -.7537 .6821

ALPHA ( 5 ) = 11.961 BETA ( 3 ) = +2.46 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z:BV .3170 .4120 .5070 .6020 .6970 .7920

NOV  
1.708 -.7536 -.7549 -.7539 -.7922 -.7666 -.7666 -.7031  
1.757 -.7524 -.7546 -.7535 -.7928 .0000 .0000 .6927  
1.805 -.7514 -.7536 -.7525 -.7943 -.7519 -.7519 .6995  
1.857 -.7517 -.7539 -.7528 -.7963 -.7512 -.7512 .6893  
1.908 -.6893 -.6816 -.6826 -.7725 -.7304 -.7304 .6852



TABULATED PRESSURE DATA - CA148 ( AXES 11-073-1 )  
AXES 11-07310A(148) -140A/B/C/R ORS SPEED BRAKE

PARAMETRIC DATA  
RUDDER = 10.000 SPOBRK = 35.000  
BOFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = .900

ALPHA ( 1 ) = -.063 BETA ( 1 ) = -3.844 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806  
SECTION 11-07310A(148) INSIDE DEPENDENT VARIABLE CP  
Z18. 1.0 1.120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = -.055 BETA ( 2 ) = .194 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806  
SECTION 11-07310A(148) INSIDE DEPENDENT VARIABLE CP  
Z18. 1.0 1.120 .5070 .6020 .6970 .7920

ALPHA ( 3 ) = -.061 BETA ( 3 ) = 4.272 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806  
SECTION 11-07310A(148) INSIDE DEPENDENT VARIABLE CP  
Z18. 1.0 1.120 .5070 .6020 .6970 .7920

ALPHA ( 4 ) = -.061 BETA ( 4 ) = 4.272 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806  
SECTION 11-07310A(148) INSIDE DEPENDENT VARIABLE CP  
Z18. 1.0 1.120 .5070 .6020 .6970 .7920

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INSULATED PRESSURE DATA - 3A148 ( AMES 11-073-1 )

(XEBK36)

AMES 11-073(0A148) - 140A/B/C/R CRB SPEED BRAKE

ALPHA ( 2 ) = .042 BETA ( 1 ) = -3.865 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5932 -.6135 -.6731 -.6412 -.5708 -.4621  
 .757 -.5921 -.6222 -.6917 -.6511 .0000 -.4451  
 .805 -.5934 -.6446 -.6919 -.6495 -.5594 -.4246  
 .897 -.6177 -.6812 -.7047 -.6372 -.5293 -.4231  
 .959 -.6361 -.6957 -.7089 -.6516 -.5243 -.4144

ALPHA ( 2 ) = .092 BETA ( 2 ) = .183 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5393 -.5534 -.5998 -.6090 -.5684 -.4968  
 .757 -.5238 -.5541 -.6151 -.6128 .0000 -.4585  
 .805 -.5353 -.5742 -.6320 -.6169 -.5545 -.4488  
 .897 -.5577 -.6373 -.6499 -.6131 -.5377 -.4318  
 .958 -.5726 -.6340 -.6528 -.6107 -.5223 -.4273

ALPHA ( 2 ) = .085 BETA ( 3 ) = 4.248 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5232 -.5521 -.5995 -.6065 -.5467 -.4184  
 .757 -.5289 -.5563 -.6333 -.6199 .0000 -.4040  
 .805 -.5295 -.5776 -.6562 -.6321 -.5304 -.3926  
 .897 -.5525 -.6210 -.6590 -.6132 -.5030 -.3878  
 .959 -.5743 -.6330 -.6678 -.6354 -.4919 -.3644

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = -3.873 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5346 -.5628 -.6228 -.6011 -.5223 -.4126  
 .757 -.5651 -.6176 -.6580 -.6070 .0000 -.4017  
 .805 -.5316 -.6114 -.6519 -.6119 -.4937 -.3955  
 .897 -.6107 -.6776 -.6775 -.6212 -.4935 -.3898  
 .959 -.6308 -.6913 -.6857 -.6194 -.4934 -.3953

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK36)

ALPHA ( 3 ) = 3.981 BETA ( 2 ) = .185 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5212	-.5473	-.5986	-.6036	-.5473	-.4714
.757	-.5188	-.5611	-.6084	-.6099	.0000	-.4464
.805	-.5259	-.5644	-.6333	-.6135	-.5327	-.4272
.857	-.5472	-.6139	-.6407	-.6269	-.5178	-.4195
.908	-.5566	-.6343	-.6432	-.5936	-.4956	-.4029

ALPHA ( 4 ) = 3.985 BETA ( 3 ) = 4.242 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5130	-.5473	-.6029	-.5996	-.5345	-.3987
.757	-.5039	-.5497	-.6306	-.6164	.0000	-.3821
.805	-.5336	-.5672	-.6477	-.6271	-.5104	-.3679
.857	-.5430	-.6146	-.6531	-.6263	-.4979	-.3596
.908	-.5545	-.6436	-.6643	-.6053	-.4746	-.3442

ALPHA ( 4 ) = 8.050 BETA ( 1 ) = -3.862 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5029	-.6186	-.6634	-.6116	-.5375	-.4305
.757	-.5098	-.6237	-.6697	-.6197	.0000	-.4150
.805	-.5337	-.6441	-.6922	-.6236	-.5078	-.3932
.857	-.5617	-.6619	-.6967	-.6222	-.4988	-.3952
.908	-.5676	-.6833	-.6867	-.6234	-.4971	-.3874

ALPHA ( 4 ) = 9.064 BETA ( 2 ) = .184 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5093	-.6543	-.6830	-.6124	-.5730	-.4658
.757	-.5094	-.6546	-.6845	-.6226	.0000	-.4392
.805	-.5233	-.6634	-.6876	-.6285	-.4263	-.4175
.857	-.5233	-.6647	-.6882	-.6285	-.5161	-.4131
.908	-.5330	-.6646	-.6882	-.6281	-.5057	-.3991

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK36)

ALPHA ( 4 ) = 8.061 BETA ( 3 ) = 4.239 MACH = .89970 Q = 593.92 P = 1058.7 RN/L = 3.5781

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5302 -.5320 -.6175 -.6009 -.5613 -.3780  
 .757 -.5297 -.5389 -.6363 -.6241 .0000 -.3648  
 .805 -.5278 -.5548 -.6524 -.6328 -.5033 -.3577  
 .897 -.5391 -.6125 -.6842 -.6186 -.4837 -.3725  
 .968 -.5327 -.6525 -.6521 -.6196 -.4691 -.3552

ALPHA ( 5 ) = 11.931 BETA ( 1 ) = -3.854 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6170 -.6396 -.6939 -.6376 -.5644 -.4412  
 .757 -.6123 -.6533 -.6982 -.6459 .0000 -.4294  
 .805 -.6224 -.6759 -.7193 -.6534 -.5304 -.4112  
 .897 -.6363 -.7066 -.7447 -.6399 -.5214 -.4140  
 .968 -.6641 -.7152 -.7176 -.6425 -.5222 -.4121

ALPHA ( 5 ) = 11.945 BETA ( 2 ) = .188 MACH = .85377 Q = 600.28 P = 1059.2 RN/L = 3.5829

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5629 -.5653 -.6495 -.6234 -.5779 -.4500  
 .757 -.5653 -.5954 -.6637 -.6409 .0000 -.4332  
 .805 -.5711 -.6134 -.6784 -.6506 -.5446 -.4245  
 .897 -.5822 -.6547 -.6910 -.6253 -.5333 -.4150  
 .968 -.5922 -.6805 -.6972 -.6322 -.5158 -.3984

ALPHA ( 5 ) = 11.935 BETA ( 3 ) = 4.259 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5391 -.5532 -.6397 -.6170 -.5709 -.4448  
 .757 -.5417 -.5739 -.6461 -.6241 .0000 -.3959  
 .805 -.5564 -.6057 -.6682 -.6277 -.5257 -.3979  
 .897 -.5657 -.6433 -.6782 -.6203 -.5319 -.3743  
 .968 -.5516 -.6654 -.6513 -.5813 -.5127 -.3578

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED DRAKE (XEBK37) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1075.6800 IN. XO  
LREF = 477.6000 IN. YMRP = .0000 IN. YO  
BREF = 835.6000 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0003

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 35.000  
BDFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = .600

ALPHA ( 1 ) = -4.041 BETA ( 1 ) = -7.848 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION ( LEFT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3.170 4.120 .5070 .6020 .6970 .7920

X/CV

.709 -.6193 -.5730 -.6365 -.5912 -.4225 -.2786  
.757 -.6116 -.6343 -.6901 -.5910 .0000 -.2821  
.805 -.5722 -.7183 -.7012 -.5933 -.4038 -.2935  
.857 -.5781 -.7341 -.7195 -.6054 -.4100 -.3151  
.909 -.6175 -.7229 -.7123 -.6314 -.4249 -.3462

ALPHA ( 2 ) = -.025 BETA ( 2 ) = -3.846 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION ( RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3.170 4.120 .5070 .6020 .6970 .7920

X/CV

.709 -.5473 -.5830 -.6391 -.5733 -.4698 -.3124  
.757 -.5523 -.5938 -.6510 -.5735 .0000 -.3050  
.805 -.5328 -.6233 -.6695 -.5792 -.4414 -.3157  
.857 -.5328 -.6233 -.6695 -.5792 -.4414 -.3157  
.909 -.5328 -.6233 -.6695 -.5792 -.4414 -.3157

ALPHA ( 3 ) = -3.935 BETA ( 3 ) = .184 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION ( LEFT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3.170 4.120 .5070 .6020 .6970 .7920

X/CV

.709 -.5034 -.5519 -.6076 -.5559 -.4502 -.3134  
.757 -.5015 -.5516 -.6076 -.5559 -.4502 -.3134  
.805 -.5034 -.5519 -.6076 -.5559 -.4502 -.3134  
.857 -.5034 -.5519 -.6076 -.5559 -.4502 -.3134  
.909 -.5034 -.5519 -.6076 -.5559 -.4502 -.3134

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TABULATED PRESSURE DATA - 0A149 (AMES 11-073-1)

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AMES 11-073(0A149) - 140A/B/C/R ORB SPEED BRAKE

(XE8K37)

ALPHA (1) = -3.930 BETA (4) = 4.266 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.4822	-.5155	-.5801	-.5311	-.4275	-.3093
.757	-.4852	-.5191	-.6002	-.5431	.0000	-.3074
.805	-.5031	-.5543	-.6189	-.5431	-.4012	-.2942
.857	-.5287	-.6068	-.6258	-.5131	-.3925	-.2921
.909	-.5505	-.6318	-.6348	-.5036	-.3690	-.2855

ALPHA (2) = -3.945 BETA (5) = 8.339 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.8726

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.709	-.5095	-.5629	-.6276	-.5382	-.3724	-.2372
.757	-.5119	-.5662	-.6442	-.5523	.0000	-.2370
.805	-.5309	-.5989	-.6881	-.5363	-.3494	-.2538
.857	-.5570	-.6660	-.6795	-.5083	-.3278	-.2578
.909	-.5925	-.6789	-.6762	-.5050	-.3017	-.2531

ALPHA (2) = .030 BETA (1) = -7.899 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.6324	-.6791	-.7108	-.6054	-.4477	-.2805
.757	-.6425	-.6959	-.7015	-.6049	.0000	-.2822
.805	-.6683	-.7235	-.7094	-.5982	-.4270	-.2839
.857	-.6933	-.7341	-.7341	-.6275	-.4313	-.3058
.909	-.7011	-.7335	-.7300	-.6543	-.4225	-.3388

ALPHA (2) = .040 BETA (2) = -3.853 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.5520	-.5981	-.6412	-.5709	-.4645	-.2932
.757	-.5560	-.5998	-.6483	-.5765	.0000	-.3030
.805	-.5760	-.6456	-.6559	-.5823	-.4335	-.2930
.857	-.5952	-.6635	-.6692	-.5804	-.4295	-.3018
.909	-.6149	-.6870	-.6726	-.5809	-.4372	-.3079

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ALPHA ( 2 ) = .104 BETA ( 3 ) = .181 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794  
(XE8K37)

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .703 -.5167 -.5554 -.6180 -.5656 -.4493 -.2845  
 .757 -.5167 -.5502 -.6320 -.5770 .0000 -.2883  
 .805 -.5383 -.5383 -.6546 -.5784 -.4160 -.2803  
 .857 -.5628 -.6406 -.6543 -.5480 -.3944 -.2696  
 .909 -.5961 -.6518 -.6596 -.5689 -.3316 -.2604

ALPHA ( 2 ) = .102 BETA ( 4 ) = 4.244 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .703 -.5089 -.5495 -.6131 -.5514 -.4144 -.2573  
 .757 -.5100 -.5585 -.6363 -.5582 .0000 -.2673  
 .805 -.5326 -.5331 -.6513 -.5592 -.3862 -.2652  
 .857 -.5590 -.6460 -.6596 -.5234 -.3625 -.2625  
 .909 -.5903 -.6723 -.6624 -.5279 -.3449 -.2604

ALPHA ( 2 ) = .019 BETA ( 5 ) = 8.303 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .703 -.5426 -.5977 -.6709 -.5572 -.3917 -.2111  
 .757 -.5445 -.6167 -.6980 -.5700 .0000 -.2001  
 .805 -.5570 -.6475 -.7108 -.5705 -.3478 -.2075  
 .857 -.5939 -.6967 -.7338 -.5612 -.3481 -.2051  
 .909 -.6224 -.7021 -.7201 -.5595 -.3390 -.2079

ALPHA ( 3 ) = 4.035 BETA ( 1 ) = -7.909 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .703 -.5545 -.6933 -.7030 -.5941 -.4507 -.2993  
 .757 -.6481 -.7032 -.6919 -.5917 .0000 -.2998  
 .805 -.6684 -.7322 -.7149 -.5950 -.4315 -.2941  
 .857 -.6974 -.7439 -.7322 -.6439 -.4612 -.3053  
 .909 -.7056 -.7522 -.7190 -.6734 -.4602 -.3272

AMES 11-073(0A148) - 140A/B/C/R OR8 SPEED BRAKE

(XEBK37)

ALPHA ( 3 ) = 4.04; BETA ( 2 ) = -3.867 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.729	-.5703	-.6075	-.6483	-.5682	-.4332	-.2766
.757	-.5649	-.6106	-.6509	-.5711	.0000	-.2638
.785	-.5599	-.6228	-.6771	-.5737	-.4031	-.2721
.813	-.5638	-.6238	-.6764	-.5808	-.4142	-.2868
.841	-.5697	-.6216	-.6793	-.5825	-.4171	-.3094

ALPHA ( 3 ) = 4.040 BETA ( 3 ) = .186 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.729	-.5116	-.5516	-.6121	-.5681	-.4501	-.2831
.757	-.5129	-.5567	-.6330	-.5712	.0000	-.2800
.785	-.5250	-.5545	-.6426	-.5691	-.4133	-.2812
.813	-.5593	-.5409	-.6472	-.5551	-.3224	-.2655
.841	-.5843	-.5557	-.6610	-.5510	-.3798	-.2716

ALPHA ( 3 ) = 4.040 BETA ( 4 ) = 4.237 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.729	-.6357	-.5915	-.6497	-.5680	-.4276	-.2230
.757	-.6272	-.5846	-.6694	-.5726	.0000	-.2245
.785	-.6344	-.5841	-.6805	-.5726	-.3756	-.2067
.813	-.6267	-.6710	-.6810	-.5673	-.3535	-.2181
.841	-.6354	-.6934	-.6838	-.5600	-.3443	-.2214

ALPHA ( 3 ) = 4.040 BETA ( 5 ) = 8.284 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.729	-.6142	-.5624	-.7634	-.6242	-.3788	-.1810
.757	-.6090	-.5566	-.7835	-.6311	.0000	-.1810
.785	-.6323	-.6119	-.7692	-.6178	-.3368	-.1788
.813	-.6230	-.7960	-.8102	-.6073	-.3247	-.1805
.841	-.6340	-.8421	-.7740	-.5935	-.3161	-.1935



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ALPHA ( 1 ) = 7.972 BETA ( 1 ) = -7.834 MACH = .59666 0 = 594.55 P = 2385.8 RN/L = 4.8889 (XE8K37)

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 3V .3170 .4120 .5070 .6020 .6970 .7920

X 2V  
 708 -.6360 -.6959 -.6914 -.5351 -.3742 -.2928  
 757 -.6294 -.7021 -.6880 -.5348 -.0000 -.2918  
 805 -.6477 -.7285 -.7002 -.5367 -.3692 -.2970  
 857 -.6722 -.7427 -.7073 -.5674 -.3966 -.2998  
 909 -.6909 -.7739 -.6807 -.6082 -.4244 -.3342

ALPHA ( 4 ) = 7.984 BETA ( 2 ) = -3.864 MACH = .59666 0 = 594.55 P = 2385.8 RN/L = 4.8889

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 3V .3170 .4120 .5070 .6020 .6970 .7920

X 2V  
 708 -.6742 -.6189 -.6501 -.5461 -.4055 -.2723  
 757 -.6747 -.6250 -.6584 -.5477 -.4000 -.2794  
 805 -.6934 -.6506 -.6672 -.5594 -.3865 -.2735  
 857 -.6931 -.6725 -.6712 -.5644 -.3935 -.2805  
 909 -.6224 -.6707 -.6564 -.5708 -.3938 -.2913

ALPHA ( 4 ) = 7.990 BETA ( 3 ) = .171 MACH = .59666 0 = 594.55 P = 2385.8 RN/L = 4.8889

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 3V .3170 .4120 .5070 .6020 .6970 .7920

X 2V  
 708 -.5030 -.5513 -.5108 -.5534 -.4456 -.2797  
 757 -.5160 -.5555 -.6332 -.5736 -.0000 -.2733  
 805 -.5276 -.5954 -.6495 -.5627 -.4841 -.2666  
 857 -.5483 -.6391 -.5526 -.5503 -.3889 -.2651  
 909 -.5772 -.6537 -.5545 -.5531 -.3542 -.2543

ALPHA ( 4 ) = 7.990 BETA ( 4 ) = 4.234 MACH = .59666 0 = 594.55 P = 2385.8 RN/L = 4.8889

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 3V .3170 .4120 .5070 .6020 .6970 .7920

X 2V  
 708 -.5032 -.5616 -.6254 -.5556 -.4124 -.2360  
 757 -.5133 -.5605 -.6301 -.5763 -.0000 -.2367  
 805 -.5235 -.5938 -.6448 -.5549 -.3577 -.2244  
 857 -.5430 -.6322 -.5522 -.5542 -.3442 -.2190  
 909 -.5772 -.6563 -.5593 -.5540 -.3322 -.2282

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK37)

ALPHA ( 5 ) = 7.988 BETA ( 5 ) = 8.288 MACH = .59666 Q = 594.55 P = 2385.8 RN/L = 4.8889

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5735 -.5116 -.6957 -.5516 -.3323 -.2130  
 .757 -.5702 -.6331 -.7115 -.5592 .0000 -.2166  
 .805 -.5848 -.7002 -.7252 -.5297 -.3038 -.2078  
 .837 -.5973 -.7567 -.7390 -.5086 -.3033 -.2168  
 .908 -.6013 -.7916 -.6972 -.4753 -.2928 -.2307

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -7.860 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6505 -.6905 -.6757 -.5251 -.3614 -.2962  
 .757 -.6387 -.7079 -.6700 -.5059 .0000 -.2995  
 .805 -.6501 -.7291 -.5997 -.5289 -.3455 -.3011  
 .837 -.6775 -.7263 -.7163 -.5746 -.3780 -.3159  
 .908 -.6900 -.7181 -.7070 -.5946 -.4238 -.3446

ALPHA ( 5 ) = 11.981 BETA ( 2 ) = -3.846 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5642 -.5972 -.6568 -.5639 -.4062 -.2562  
 .757 -.5642 -.6191 -.6632 -.5580 .0000 -.2641  
 .805 -.5826 -.6528 -.6739 -.5670 -.3800 -.2717  
 .837 -.6002 -.6749 -.6727 -.5601 -.3738 -.2765  
 .908 -.6217 -.6724 -.6841 -.5684 -.3589 -.2980

ALPHA ( 5 ) = 11.991 BETA ( 3 ) = .172 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5927 -.6138 -.6224 -.5587 -.4415 -.2536  
 .757 -.5927 -.6324 -.6438 -.5656 .0000 -.2672  
 .805 -.5927 -.6324 -.6438 -.5656 .0000 -.2672  
 .837 -.5927 -.6324 -.6438 -.5656 .0000 -.2672  
 .908 -.5927 -.6324 -.6438 -.5656 .0000 -.2672

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK37)

BETA ( 4 ) = 4.243 MACH = .59676 P = 594.79 RN/L = 4.8888

SECTION 11 RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

X/CV 3170 3120 5070 6020 6970 7920

709 -5124 -5641 -6270 -5544 -4240 -2337  
757 -5150 -5648 -6477 -5504 0000 -2282  
804 -5354 -5076 -6712 -5497 -3592 -2206  
852 -5598 -5528 -6743 -5556 -3587 -2299  
900 -5735 -5936 -6754 -5533 -3478 -2299

ALPHA ( 5 ) = 11.975 BETA ( 5 ) = 8.313 MACH = .59676 P = 594.79 RN/L = 4.8888

SECTION 11 RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

X/CV 3170 3120 5070 6020 6970 7920

709 -5245 -5230 -7080 -5689 -3259 -2089  
757 -5771 -5333 -7369 -5684 0000 -2060  
804 -5594 -5233 -7833 -5626 -3103 -2120  
852 -5970 -7369 -7774 -5106 -2934 -2219  
900 -5228 -6116 -7191 -4876 -2729 -2247

(XEBK38) ( 13 AUG 75 )

AMES 11-073(CA148) -140A/B/C/R ORB SPEED BRAKE

REFERENCE DATA

REF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
REF = 174.6000 IN. YMRP = .0000 IN. YO  
REF = 935.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.002 BETA ( 1 ) = -3.853 MACH = 1.3931 Q = 600.20 P = 441.63 RN/L = 2.9112

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -.5948 -.5901 -.5947 -.5998 -.5956 -.5793  
757 -.5924 -.5872 -.5975 -.6010 -.6000 -.5762  
805 -.5825 -.5872 -.5889 -.6015 -.5954 -.5786  
857 -.5938 -.5928 -.5928 -.6010 -.6027 -.5958  
908 -.5942 -.5971 -.6008 -.6032 -.5956 -.5791

ALPHA ( 2 ) = -3.940 BETA ( 2 ) = .193 MACH = 1.3931 Q = 600.20 P = 441.63 RN/L = 2.9112

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -.6376 -.6090 -.6155 -.6226 -.6162 -.5928  
757 -.5933 -.6064 -.6155 -.6245 -.6000 -.5897  
805 -.6034 -.6074 -.6219 -.6247 -.6128 -.5914  
857 -.6063 -.6113 -.6235 -.6240 -.6124 -.5899  
908 -.6022 -.6160 -.6249 -.6219 -.6093 -.5873

ALPHA ( 3 ) = -3.950 BETA ( 3 ) = 4.276 MACH = 1.3931 Q = 600.20 P = 441.63 RN/L = 2.9112

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
708 -.6523 -.6223 -.6294 -.6351 -.6247 -.6043  
757 -.6158 -.6314 -.6358 -.6372 -.6000 -.6003  
805 -.6214 -.6147 -.6382 -.6363 -.6202 -.5977  
857 -.6326 -.6364 -.6398 -.6323 -.6176 -.5924  
908 -.6178 -.6353 -.6372 -.6253 -.6150 -.5841

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 65.000  
EDFLAP = 16.300 L-ELVN = 10.000  
R-ELVN = 10.000 MACH = 1.400

TABULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

(AL8K39)  
RN/L = 2.9073

AMES 11-073(04148) -140A/B/C/R ORB SPEED BRAKE

P = 599.59 Q = 599.59

DEPENDENT VARIABLE CP

SECTION 1 UPRIGHT HAND INSIDE  
Z-BV .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = .036 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 599.59  
X-CV  
1.038 -.6144 -.5024 -.6058 -.6096 -.6054 -.5935  
1.057 -.5932 -.5322 -.6085 -.6115 .0000 -.5904  
1.075 -.5350 -.5350 -.6095 -.6113 -.6056 -.5926  
1.093 -.5945 -.5945 -.6108 -.6120 -.6063 -.5885  
1.111 -.5931 -.6015 -.6118 -.6054 -.6054 -.5854

DEPENDENT VARIABLE CP

SECTION 1 UPRIGHT HAND INSIDE  
Z-BV .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = .036 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 599.59  
X-CV  
1.038 -.6144 -.5024 -.6058 -.6096 -.6054 -.5935  
1.057 -.5932 -.5322 -.6085 -.6115 .0000 -.5904  
1.075 -.5350 -.5350 -.6095 -.6113 -.6056 -.5926  
1.093 -.5945 -.5945 -.6108 -.6120 -.6063 -.5885  
1.111 -.5931 -.6015 -.6118 -.6054 -.6054 -.5854

DEPENDENT VARIABLE CP

SECTION 1 UPRIGHT HAND INSIDE  
Z-BV .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = .036 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 599.59  
X-CV  
1.038 -.6144 -.5024 -.6058 -.6096 -.6054 -.5935  
1.057 -.5932 -.5322 -.6085 -.6115 .0000 -.5904  
1.075 -.5350 -.5350 -.6095 -.6113 -.6056 -.5926  
1.093 -.5945 -.5945 -.6108 -.6120 -.6063 -.5885  
1.111 -.5931 -.6015 -.6118 -.6054 -.6054 -.5854

DEPENDENT VARIABLE CP

SECTION 1 UPRIGHT HAND INSIDE  
Z-BV .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = .036 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 599.59  
X-CV  
1.038 -.6144 -.5024 -.6058 -.6096 -.6054 -.5935  
1.057 -.5932 -.5322 -.6085 -.6115 .0000 -.5904  
1.075 -.5350 -.5350 -.6095 -.6113 -.6056 -.5926  
1.093 -.5945 -.5945 -.6108 -.6120 -.6063 -.5885  
1.111 -.5931 -.6015 -.6118 -.6054 -.6054 -.5854

DEPENDENT VARIABLE CP

SECTION 1 UPRIGHT HAND INSIDE  
Z-BV .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 2 ) = .036 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 599.59  
X-CV  
1.038 -.6144 -.5024 -.6058 -.6096 -.6054 -.5935  
1.057 -.5932 -.5322 -.6085 -.6115 .0000 -.5904  
1.075 -.5350 -.5350 -.6095 -.6113 -.6056 -.5926  
1.093 -.5945 -.5945 -.6108 -.6120 -.6063 -.5885  
1.111 -.5931 -.6015 -.6118 -.6054 -.6054 -.5854

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INSULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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AXES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK38)

ALPHA ( 3 ) = 3.855 BETA ( 2 ) = .183 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6296 -.6074 -.6129 -.6181 -.6136 -.5961  
 .757 -.5935 -.6051 -.6155 -.6203 .0000 -.5917  
 .805 -.5992 -.6048 -.6174 -.6205 -.6122 -.5935  
 .887 -.6041 -.6091 -.6184 -.6203 -.6113 -.5942  
 .958 -.6008 -.6103 -.6198 -.6203 -.6094 -.5921

ALPHA ( 3 ) = 3.906 BETA ( 3 ) = 4.246 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6560 -.6210 -.6273 -.6360 -.6296 -.6097  
 .757 -.5165 -.5191 -.6310 -.6374 .0000 -.6052  
 .805 -.6154 -.6194 -.6332 -.6377 -.6261 -.6057  
 .887 -.6175 -.6229 -.6359 -.6360 -.6247 -.6014  
 .958 -.6118 -.6246 -.6372 -.6346 -.6239 -.5959

ALPHA ( 4 ) = 7.922 BETA ( 1 ) = -3.861 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5371 -.6135 -.6197 -.6273 -.6197 -.5975  
 .757 -.6035 -.6121 -.6231 -.6294 .0000 -.5973  
 .805 -.6065 -.6114 -.6252 -.6290 -.6200 -.5982  
 .887 -.6102 -.6149 -.6271 -.6287 -.6193 -.5978  
 .958 -.6047 -.6179 -.6290 -.6268 -.6181 -.5931

ALPHA ( 4 ) = 7.892 BETA ( 2 ) = .182 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6213 -.6061 -.6127 -.6177 -.6120 -.5914  
 .757 -.5903 -.6030 -.6142 -.6198 .0000 -.5888  
 .805 -.5959 -.6037 -.6160 -.6205 -.6115 -.5921  
 .887 -.6018 -.6003 -.6191 -.6201 -.6118 -.5882  
 .958 -.5959 -.6034 -.6201 -.6208 -.6101 -.5873

ALPHA ( 5 ) = 7.830 BETA ( 3 ) = 4.245 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102  
(XEBK38)

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/C:

.703 -.6320 -.6035 -.6143 -.6203 -.6155 -.5980  
.757 -.6021 -.6064 -.6169 -.6217 .0000 -.5954  
.825 -.6025 -.6054 -.6179 -.6219 -.6150 -.5980  
.897 -.6035 -.6066 -.6203 -.6231 -.6160 -.5980  
.969 -.6002 -.6110 -.6214 -.6217 -.6150 -.5965

ALPHA ( 5 ) = 11.870 BETA ( 3 ) = -3.851 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/C:

.703 -.6397 -.6142 -.6217 -.6230 -.6208 -.6012  
.757 -.6033 -.6130 -.6255 -.6305 .0000 -.5956  
.825 -.6073 -.6123 -.6270 -.6305 -.6208 -.6000  
.897 -.6104 -.6177 -.6288 -.6298 -.6201 -.6009  
.969 -.6050 -.6210 -.6298 -.6290 -.6191 -.5948

ALPHA ( 5 ) = 11.880 BETA ( 2 ) = .187 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/C:

.703 -.6252 -.6104 -.6177 -.6244 -.6180 -.5955  
.757 -.5945 -.6097 -.6124 -.6260 .0000 -.5946  
.825 -.5938 -.6080 -.6220 -.6267 -.6149 -.5962  
.897 -.6055 -.6113 -.6239 -.6270 -.6177 -.5971  
.969 -.6035 -.6119 -.6257 -.6253 -.6175 -.5973

ALPHA ( 5 ) = 11.873 BETA ( 3 ) = 4.255 MACH = 1.3941 Q = 600.12 P = 441.12 RN/L = 2.9072

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/C:

.703 -.6314 -.6075 -.6125 -.6158 -.6120 -.5965  
.757 -.6032 -.6062 -.6144 -.6153 .0000 -.5964  
.825 -.6015 -.6043 -.6141 -.6172 -.6129 -.5985  
.897 -.6016 -.6048 -.6153 -.6179 -.6125 -.5955  
.969 -.6049 -.6069 -.6172 -.6192 -.6127 -.5955

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK38)

ALPHA ( 6 ) = 15.853 BETA ( 1 ) = -3.829 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6138 -.6076 -.6187 -.6263 -.6125 -.5884  
.757 -.6015 -.6064 -.6220 -.6272 .0000 -.5876  
.805 -.6017 -.6079 -.6248 -.6274 -.6135 -.5851  
.887 -.6064 -.6138 -.6277 -.6263 -.6121 -.5765  
.958 -.6055 -.6162 -.6279 -.6253 -.6090 -.5646

ALPHA ( 6 ) = 15.855 BETA ( 2 ) = .185 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6283 -.6160 -.6220 -.6305 -.6215 -.6003  
.757 -.6038 -.6153 -.6258 -.6310 .0000 -.6017  
.805 -.6095 -.6139 -.6272 -.6305 -.6218 -.6012  
.887 -.6101 -.6163 -.6289 -.6317 -.6211 -.6016  
.958 -.6066 -.6184 -.6324 -.6296 -.6201 -.6002

ALPHA ( 6 ) = 15.858 BETA ( 3 ) = 4.285 MACH = 1.3929 Q = 599.99 P = 441.82 RN/L = 2.9183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6229 -.6090 -.6144 -.6153 -.6113 -.6042  
.757 -.6062 -.6097 -.6151 -.6156 .0000 -.6028  
.805 -.6076 -.6081 -.6153 -.6170 -.6120 -.6033  
.857 -.6059 -.6039 -.6168 -.6175 -.6127 -.6032  
.958 -.6038 -.6129 -.6168 -.6160 -.6127 -.5968



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK39) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2550.0000 SQ.FT. XMRP = 1075.6800 IN. XO  
 LREF = 474.8300 IN. YMRP = .0000 IN. YO  
 SREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.991 BETA ( 1 ) = -3.847 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146  
 RUDDER = 10.000 SPDBRK = 85.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = 1.250

## PARAMETRIC DATA

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.6943 -.6957 -.7040 -.7092 -.7025 -.6765  
 .757 -.6873 -.6950 -.7056 -.7089 -.7000 -.6805  
 .805 -.6873 -.6952 -.7089 -.7092 -.7049 -.6838  
 .857 -.6977 -.7023 -.7111 -.7137 -.7069 -.6837  
 .909 -.6922 -.7076 -.7130 -.7141 -.7082 -.6894

ALPHA ( 1 ) = -3.979 BETA ( 2 ) = .190 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7038 -.7124 -.7211 -.7301 -.7182 -.6893  
 .757 -.7105 -.7083 -.7241 -.7324 -.7000 -.6869  
 .805 -.7074 -.7093 -.7277 -.7310 -.7192 -.6874  
 .857 -.7041 -.7149 -.7320 -.7350 -.7170 -.6872  
 .909 -.7015 -.7220 -.7367 -.7348 -.7121 -.6841

ALPHA ( 1 ) = -3.998 BETA ( 3 ) = 4.277 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7257 -.7260 -.7395 -.7482 -.7288 -.6868  
 .757 -.7227 -.7250 -.7335 -.7503 -.7000 -.6862  
 .805 -.7189 -.7231 -.7477 -.7499 -.7288 -.6839  
 .857 -.7243 -.7402 -.7520 -.7506 -.7239 -.6752  
 .909 -.7276 -.7471 -.7529 -.7477 -.7125 -.6579

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK39)

ALPHA ( 2 ) = .059 BETA ( 1 ) = -3.868 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6938	-.7063	-.7176	-.7284	-.7114	-.6771
.757	-.6993	-.7009	-.7211	-.7266	.0000	-.6790
.805	-.6836	-.7018	-.7225	-.7282	-.7142	-.6835
.897	-.6879	-.7043	-.7280	-.7303	-.7152	-.6811
.968	-.6907	-.7104	-.7308	-.7287	-.7131	-.6825

ALPHA ( 2 ) = .062 BETA ( 2 ) = .177 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6952	-.7007	-.7129	-.7212	-.7079	-.6741
.757	-.6935	-.6971	-.7146	-.7235	.0000	-.6734
.805	-.6955	-.6952	-.7174	-.7264	-.7084	-.6727
.897	-.6938	-.7026	-.7240	-.7264	-.7051	-.6695
.968	-.6917	-.7069	-.7269	-.7280	-.7008	-.6645

ALPHA ( 2 ) = .021 BETA ( 3 ) = 4.254 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7070	-.7109	-.7246	-.7303	-.7135	-.6706
.757	-.6998	-.7062	-.7300	-.7367	.0000	-.6706
.805	-.6987	-.7117	-.7152	-.7359	-.7146	-.6682
.897	-.7070	-.7240	-.7369	-.7343	-.7106	-.6605
.968	-.7100	-.7285	-.7359	-.7319	-.7004	-.6425

ALPHA ( 3 ) = 3.934 BETA ( 1 ) = -3.873 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6953	-.6934	-.7076	-.7164	-.6977	-.6665
.757	-.6937	-.6931	-.7074	-.7152	.0000	-.6658
.805	-.6919	-.6984	-.7112	-.7183	-.7003	-.6558
.897	-.6913	-.6932	-.7159	-.7211	-.6934	-.6633
.968	-.6915	-.6969	-.7209	-.7214	-.6949	-.6540

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK39)

ALPHA ( 3 ) = 3.935 BETA ( 2 ) = .189 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6771 -.6814 -.6942 -.7008 -.6873 -.6592  
 .757 -.6572 -.6734 -.6949 -.7003 -.6800 -.6558  
 .805 -.6577 -.6790 -.6970 -.7005 -.6828 -.6615  
 .887 -.6724 -.6795 -.7020 -.7015 -.6823 -.6567  
 .959 -.6795 -.6974 -.7041 -.7041 -.6878 -.6503

ALPHA ( 3 ) = 3.939 BETA ( 3 ) = 4.242 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6745 -.6734 -.6879 -.6945 -.6780 -.6510  
 .757 -.6541 -.6725 -.6892 -.6969 -.6800 -.6543  
 .805 -.6624 -.6705 -.6912 -.6931 -.6799 -.6463  
 .887 -.6596 -.6782 -.6993 -.7026 -.6753 -.6503  
 .959 -.6596 -.6693 -.7035 -.6993 -.6742 -.6347

ALPHA ( 4 ) = 7.935 BETA ( 1 ) = -3.863 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6934 -.6777 -.6904 -.7032 -.6810 -.6516  
 .757 -.6756 -.6770 -.6942 -.7048 -.6842 -.6554  
 .805 -.6728 -.6733 -.6953 -.7055 -.6847 -.6528  
 .887 -.6699 -.6735 -.7046 -.7072 -.6793 -.6512  
 .959 -.6730 -.6948 -.7108 -.7079 -.6765 -.6354

ALPHA ( 4 ) = 7.897 BETA ( 2 ) = .182 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6624 -.6713 -.6768 -.6830 -.6768 -.6548  
 .757 -.6509 -.6592 -.6797 -.6851 -.6800 -.6475  
 .805 -.6587 -.6549 -.6830 -.6882 -.6792 -.6527  
 .887 -.6556 -.6735 -.6820 -.6915 -.6764 -.6521  
 .959 -.6544 -.6715 -.6943 -.6915 -.6740 -.6414

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ALPHA ( 4 ) = 7.979 BETA ( 3 ) = 4.243 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131  
 (XEBK39)

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .709 -.6175 -.6165 -.6316 -.6460 -.6259 -.6015  
 .757 -.6102 -.6184 -.6373 -.6403 .0000 -.6044  
 .805 -.6106 -.6215 -.6347 -.6415 -.6287 -.6112  
 .897 -.6123 -.6279 -.6444 -.6448 -.6302 -.6070  
 .959 -.6155 -.6297 -.6486 -.6415 -.6287 -.6144

ALPHA ( 5 ) = 11.869 BETA ( 1 ) = -3.849 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .709 -.6635 -.6590 -.6756 -.6879 -.6674 -.6355  
 .757 -.6543 -.6593 -.6792 -.6903 .0000 -.6402  
 .805 -.6515 -.6614 -.6855 -.6919 -.6700 -.6397  
 .897 -.6522 -.6662 -.6905 -.6936 -.6650 -.6376  
 .959 -.6572 -.6596 -.6948 -.6896 -.6581 -.6211

ALPHA ( 5 ) = 11.810 BETA ( 2 ) = .187 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .709 -.6355 -.6309 -.6438 -.6521 -.6447 -.6178  
 .757 -.6237 -.6208 -.6513 -.6554 .0000 -.6204  
 .805 -.6250 -.6334 -.6499 -.6599 -.6513 -.6249  
 .897 -.6267 -.6393 -.6584 -.6601 -.6431 -.6279  
 .959 -.6284 -.6454 -.6594 -.6580 -.6426 -.6246

ALPHA ( 5 ) = 11.856 BETA ( 3 ) = 4.252 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .709 -.6249 -.6119 -.6177 -.6324 -.6166 -.5983  
 .757 -.6015 -.6121 -.6182 -.6315 .0000 -.5993  
 .805 -.6009 -.6190 -.6260 -.6260 -.6189 -.6078  
 .897 -.6098 -.6110 -.6334 -.6296 -.6135 -.5949  
 .959 -.6062 -.6280 -.6331 -.6263 -.6158 -.6075

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XE8K40) ( 13 AUG 75 )

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 85.000  
BDFLAP = 16.300 L-ELVN = 10.000  
R-ELVN = 10.000 MACH = 1.100

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
YREF = 174.8000 IN. YMRP = .0000 IN. YO  
ZREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -3.999 BETA ( 1 ) = -3.842 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.738 -.7618 -.7564 -.7684 -.7910 -.7766 -.7318  
.757 -.7457 -.7524 -.7757 -.7969 .0000 -.7297  
.925 -.7423 -.7575 -.7887 -.7998 -.7762 -.7382  
.897 -.7500 -.7668 -.7935 -.8007 -.7729 -.7361  
.958 -.7544 -.7842 -.8071 -.8017 -.7693 -.7359

ALPHA ( 2 ) = -3.997 BETA ( 2 ) = .194 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.732 -.7175 -.7255 -.7430 -.7496 -.7234 -.7060  
.757 -.7177 -.7179 -.7449 -.7499 .0000 -.7034  
.925 -.7146 -.7212 -.7453 -.7499 -.7239 -.7083  
.897 -.7224 -.7385 -.7525 -.7492 -.7265 -.7137  
.958 -.7236 -.7487 -.7569 -.7553 -.7159 -.7069

ALPHA ( 3 ) = -3.995 BETA ( 3 ) = 4.277 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.738 -.7640 -.7533 -.7689 -.7850 -.7597 -.7088  
.757 -.7444 -.7466 -.7902 -.7924 .0000 -.7095  
.925 -.7395 -.7316 -.7885 -.7936 -.7500 -.7164  
.897 -.7548 -.7733 -.8044 -.8000 -.7500 -.7159  
.958 -.7621 -.7559 -.8142 -.8009 -.7396 -.7085

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XE8K40)

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.867 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7000 -.6962 -.7111 -.7279 -.7212 -.6841  
 .757 -.6936 -.7019 -.7184 -.7352 .0000 -.6890  
 .805 -.6968 -.7005 -.7283 -.7411 -.7272 -.6900  
 .887 -.6991 -.7074 -.7407 -.7430 -.7196 -.6908  
 .958 -.7055 -.7235 -.7466 -.7442 -.7151 -.6830

ALPHA ( 2 ) = .018 BETA ( 2 ) = .181 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6804 -.6811 -.6958 -.7119 -.6922 -.6627  
 .757 -.6733 -.6747 -.7010 -.7131 .0000 -.6679  
 .805 -.6754 -.6849 -.7057 -.7138 -.7015 -.6721  
 .887 -.6730 -.6890 -.7157 -.7173 -.6892 -.6760  
 .965 -.6910 -.7049 -.7209 -.7194 -.6913 -.6585

ALPHA ( 2 ) = .012 BETA ( 3 ) = 4.250 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6359 -.6449 -.6691 -.6819 -.6466 -.6052  
 .757 -.6322 -.6451 -.6774 -.6864 .0000 -.6147  
 .805 -.6322 -.6513 -.6849 -.6859 -.6483 -.6187  
 .887 -.6511 -.6760 -.6930 -.6901 -.6485 -.6154  
 .958 -.6572 -.6831 -.7032 -.6906 -.6407 -.6130

ALPHA ( 3 ) = 3.913 BETA ( 1 ) = -3.865 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6614 -.6650 -.6805 -.7060 -.6916 -.6549  
 .757 -.6532 -.6673 -.6854 -.7067 .0000 -.6568  
 .805 -.6513 -.6693 -.6911 -.7145 -.6932 -.6601  
 .887 -.6573 -.6737 -.7074 -.7148 -.6873 -.6600  
 .968 -.6711 -.6928 -.7157 -.7178 -.6845 -.6439

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.917    BETA ( 2 ) = .178    MACH = 1.1005    Q = 600.31    P = 708.14    RN/L = 3.1848  
 (XEBK40)

## SECTION 1 ( RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.5985 -.6264 -.6205 -.6406 -.6189 -.5909  
 .757 -.5983 -.6283 -.6300 -.6420 -.6000 -.5959  
 .805 -.5982 -.6142 -.6366 -.6416 -.6222 -.5990  
 .887 -.6076 -.6235 -.6472 -.6458 -.6241 -.6044  
 .958 -.6206 -.6356 -.6524 -.6446 -.6203 -.5918

ALPHA ( 3 ) = 3.924    BETA ( 3 ) = 4.244    MACH = 1.1005    Q = 600.31    P = 708.14    RN/L = 3.1848

## SECTION 1 ( RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.5976 -.6261 -.6219 -.6421 -.6222 -.5801  
 .757 -.5979 -.6225 -.6331 -.6449 .0000 -.5777  
 .805 -.5971 -.6268 -.6428 -.6593 -.6200 -.5808  
 .887 -.6049 -.6309 -.6501 -.6539 -.6200 -.5842  
 .958 -.6168 -.6457 -.6579 -.6494 -.6080 -.5698

ALPHA ( 4 ) = 7.901    BETA ( 1 ) = -3.860    MACH = 1.1015    Q = 600.67    P = 707.22    RN/L = 3.1834

## SECTION 1 ( RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.6428 -.6513 -.6593 -.6896 -.6738 -.6371  
 .757 -.6404 -.6464 -.6726 -.6943 .0000 -.6404  
 .805 -.6350 -.6527 -.6816 -.6977 -.6783 -.6463  
 .887 -.6419 -.6614 -.6910 -.7029 -.6719 -.6326  
 .958 -.6516 -.6718 -.7005 -.6348 -.6669 -.6132

ALPHA ( 4 ) = 7.905    BETA ( 2 ) = .181    MACH = 1.1015    Q = 600.67    P = 707.22    RN/L = 3.1834

## SECTION 1 ( RIGHT HAND INSIDE )

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -.5062 -.6119 -.6309 -.6431 -.6322 -.5960  
 .757 -.6046 -.6176 -.6322 -.6452 .0000 -.5998  
 .805 -.5025 -.6105 -.6393 -.6535 -.6343 -.6014  
 .887 -.6034 -.6222 -.6452 -.6465 -.6312 -.6005  
 .958 -.6225 -.6393 -.6572 -.6555 -.6277 -.5925

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE (XEBK40)

ALPHA ( 4 ) = 7.904 BETA ( 3 ) = 4.239 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

SECTION ( 1 ) BRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.5835	-.5896	-.6157	-.6377	-.6185	-.5734
.757	-.5856	-.5955	-.6199	-.6398	.0000	-.5746
.805	-.5842	-.5895	-.6295	-.6471	-.6176	-.5793
.887	-.5823	-.6137	-.6452	-.6431	-.6207	-.5811
.969	-.5854	-.6352	-.6521	-.6431	-.6166	-.5716

ALPHA ( 5 ) = 11.936 BETA ( 1 ) = -3.844 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

SECTION ( 1 ) BRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.6830	-.6973	-.7083	-.7325	-.7126	-.6670
.757	-.6791	-.6958	-.7105	-.7313	.0000	-.6712
.805	-.6729	-.6932	-.7247	-.7370	-.7157	-.6748
.887	-.6954	-.7060	-.7388	-.7403	-.7109	-.6693
.969	-.6977	-.7216	-.7412	-.7327	-.7027	-.6478

ALPHA ( 5 ) = 11.808 BETA ( 2 ) = .169 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

SECTION ( 1 ) BRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.6652	-.6573	-.6883	-.7105	-.6916	-.6496
.757	-.6649	-.6573	-.6950	-.7093	.0000	-.6531
.805	-.6635	-.6590	-.6987	-.7072	-.7029	-.6500
.887	-.6663	-.6890	-.7117	-.7194	-.6925	-.6639
.969	-.6831	-.7041	-.7379	-.7139	-.6911	-.6488

ALPHA ( 5 ) = 11.865 BETA ( 3 ) = 4.250 MACH = 1.0995 Q = 600.08 P = 709.07 RN/L = 3.1837

SECTION ( 1 ) BRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708	-.6183	-.6247	-.6521	-.6765	-.6475	-.6035
.757	-.6174	-.6278	-.6635	-.6738	.0000	-.6056
.805	-.6124	-.6311	-.6723	-.6934	-.6456	-.6118
.887	-.6145	-.6507	-.6927	-.6866	-.6401	-.6279
.969	-.6245	-.6716	-.6919	-.6552	-.6467	-.6291



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R OR8 SPEED BRAKE (XEBK41) ( 13 AUG 75 )

# REFERENCE DATA

QREF = 6090.0000 SQ.FT. XMRP = 1006.6800 IN. X0  
 YREF = 474.6700 IN. YMRP = .0000 IN. Y0  
 ZREF = 946.0000 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

# PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 65.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = .900

ALPHA ( 1 ) = -3.997 BETA ( 1 ) = -3.840 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4099 -.4229 -.4369 -.4539 -.4357 -.3995  
 .757 -.4007 -.4267 -.4449 -.4582 -.4000 -.4085  
 .805 -.4160 -.4302 -.4570 -.4577 -.4461 -.4127  
 .857 -.4186 -.4457 -.4588 -.4622 -.4447 -.4107  
 .909 -.4243 -.4639 -.4723 -.4657 -.4402 -.4052

ALPHA ( 2 ) = -3.981 BETA ( 2 ) = .189 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3969 -.4089 -.4293 -.4549 -.4247 -.3939  
 .757 -.3946 -.4102 -.4346 -.4530 -.4000 -.3927  
 .805 -.3968 -.4092 -.4538 -.4521 -.4293 -.3913  
 .857 -.4013 -.4263 -.4500 -.4575 -.4225 -.3846  
 .909 -.4282 -.4435 -.4573 -.4547 -.4284 -.3917

ALPHA ( 3 ) = -3.992 BETA ( 3 ) = 4.274 MACH = .89993 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3978 -.4239 -.4415 -.4489 -.4193 -.3718  
 .757 -.3949 -.4232 -.4420 -.4479 -.4000 -.3777  
 .805 -.4122 -.4245 -.4458 -.4437 -.4302 -.3815  
 .857 -.4190 -.4470 -.4592 -.4571 -.4198 -.3309  
 .909 -.4242 -.4560 -.4657 -.4543 -.4168 -.3702

AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XE8X41)

ALPHA (2) = .052 BETA (1) = -3.853 MACH = .89853 O = 598.47 P = 1059.0 RN/L = 3.5741

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

Y/CV

.709	-.4552	-.4520	-.4930	-.4783	-.4312
.757	-.4520	-.4712	-.4975	-.4000	-.4274
.805	-.4524	-.4475	-.4895	-.4784	-.4279
.857	-.4440	-.4511	-.4984	-.4646	-.4222
.909	-.4626	-.4473	-.5122	-.4750	-.4284

ALPHA (2) = .055 BETA (2) = .182 MACH = .89853 O = 598.47 P = 1059.0 RN/L = 3.5741

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

Y/CV

.709	-.4005	-.4255	-.4492	-.4715	-.4437
.757	-.4121	-.4322	-.4482	-.4620	-.4162
.805	-.4195	-.4325	-.4556	-.4653	-.4133
.857	-.4204	-.4459	-.4741	-.4615	-.4504
.909	-.4401	-.4689	-.4917	-.4703	-.4454

ALPHA (2) = .070 BETA (3) = 4.253 MACH = .89853 O = 598.47 P = 1059.0 RN/L = 3.5741

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

Y/CV

.709	-.4055	-.4246	-.4495	-.4511	-.4407
.757	-.4065	-.4264	-.4537	-.4623	-.4000
.805	-.4141	-.4421	-.4511	-.4749	-.4452
.857	-.4260	-.4433	-.4746	-.4704	-.4369
.909	-.4400	-.4636	-.4706	-.4658	-.4359

ALPHA (2) = 3.947 BETA (1) = -3.858 MACH = .89830 O = 598.51 P = 1059.5 RN/L = 3.5778

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

Y/CV

.709	-.4553	-.4757	-.4981	-.5337	-.5183
.757	-.4542	-.4712	-.5093	-.5202	-.4649
.805	-.4547	-.4771	-.5253	-.5458	-.5069
.857	-.4734	-.4959	-.5343	-.5351	-.5081
.909	-.4963	-.5153	-.5451	-.5448	-.4643

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AYES 11-073(0A148) -140A/B/C/R OR8 SPEED BRAKE (XEBK41)  
 ALPHA ( 3 ) = 7.015 BETA ( 2 ) = .184 MACH = .89830 Q = 598.51 P = 1059.5 RN/L = 3.5778

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.703	.757	.805	.857	.909	.959
	-.4151	-.4340	-.4515	-.4804	-.4671	-.4226
	-.4108	-.4260	-.4652	-.4870	.0000	-.4212
	-.4183	-.4393	-.4842	-.4822	-.4621	-.4239
	-.4298	-.4544	-.4946	-.4903	-.4671	-.4231
	-.4530	-.4793	-.5024	-.4890	-.4688	-.4160

ALPHA ( 3 ) = 7.015 BETA ( 3 ) = 4.245 MACH = .89830 Q = 598.51 P = 1059.5 RN/L = 3.5778

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.703	.757	.805	.857	.909	.959
	-.4220	-.4324	-.4745	-.4816	-.4641	-.4125
	-.4147	-.4287	-.4757	-.4847	.0000	-.4148
	-.4190	-.4338	-.4831	-.4871	-.4551	-.4101
	-.4251	-.4427	-.5038	-.4987	-.4556	-.4099
	-.4530	-.4900	-.5033	-.4975	-.4473	-.4068

ALPHA ( 4 ) = 7.919 BETA ( 1 ) = -3.861 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.703	.757	.805	.857	.909	.959
	-.4986	-.5132	-.5364	-.5865	-.5701	-.4956
	-.4945	-.5164	-.5590	-.5920	.0000	-.4961
	-.4942	-.5163	-.5730	-.5982	-.5680	-.4901
	-.5193	-.5319	-.5977	-.5922	-.5512	-.4772
	-.5502	-.5712	-.6094	-.5963	-.5593	-.4755

ALPHA ( 4 ) = 7.925 BETA ( 2 ) = .181 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV	.703	.757	.805	.857	.909	.959
	-.4453	-.4690	-.4846	-.5306	-.5135	-.4490
	-.4458	-.4621	-.5128	-.5343	.0000	-.4530
	-.4581	-.4770	-.5277	-.5279	-.5040	-.4519
	-.4791	-.4932	-.5386	-.5355	-.5130	-.4486
	-.4919	-.5116	-.5435	-.5350	-.5122	-.4454

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TABULATED PRESSURE DATA - CA148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK41)

ALPHA ( 4 ) = 7.877 BETA ( 3 ) = 4.247 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5769

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4532	-.4719	-.4925	-.5240	-.5039	-.4405
.757	-.4400	-.4712	-.5048	-.5335	.0000	-.4465
.805	-.4437	-.4738	-.5266	-.5273	-.4922	-.4377
.857	-.4729	-.5341	-.5463	-.5354	-.4991	-.4348
.909	-.4650	-.5351	-.5444	-.5347	-.4863	-.4303

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.850 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5191	-.5513	-.5833	-.6295	-.5928	-.5141
.757	-.5188	-.5458	-.6027	-.6409	.0000	-.5060
.805	-.5350	-.5513	-.6259	-.6502	-.5876	-.4927
.857	-.5589	-.5877	-.6442	-.6336	-.5741	-.4928
.909	-.5505	-.6176	-.6521	-.6229	-.5527	-.4833

ALPHA ( 5 ) = 11.849 BETA ( 2 ) = .191 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4910	-.5047	-.5431	-.5360	-.5612	-.4902
.757	-.5075	-.5076	-.5586	-.6078	.0000	-.4888
.805	-.5338	-.5165	-.5972	-.5993	-.5579	-.4986
.857	-.5233	-.5463	-.6084	-.5943	-.5515	-.4792
.909	-.5409	-.5795	-.6116	-.5951	-.5437	-.4672

ALPHA ( 5 ) = 11.981 BETA ( 3 ) = 4.259 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4956	-.5021	-.5495	-.5838	-.5514	-.4797
.757	-.4934	-.4988	-.5535	-.5956	.0000	-.4747
.805	-.4975	-.5279	-.5639	-.5805	-.5450	-.4844
.857	-.5161	-.5476	-.5993	-.5800	-.5343	-.4685
.909	-.5302	-.5773	-.6113	-.5731	-.5414	-.4514

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 TABLED PRESSURE DATA - CA148 ( AMES 11-073-1 )  
 AMES 11-073(CA148) -140A/B/C/R Q98 SPEED BRAKE

# REFERENCE DATA

AIRP = 1016.8800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO  
 AIRP = 1016.8800

ALPHA ( 1 ) = -2.043 BETA ( 1 ) = -7.852 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 9W .3170 .4120 .5070 .6020 .6970 .7920

/10V  
 .1038 -1.6535 -1.6227 -1.6327 -1.5725 -1.4597  
 .797 -1.6513 -1.5735 -1.6424 -1.6348 -1.4706  
 .936 -1.6518 -1.5923 -1.6503 -1.6339 -1.5536 -1.4756  
 .997 -1.6566 -1.6274 -1.6593 -1.6260 -1.5577 -1.4745  
 .999 -1.6615 -1.6701 -1.6657 -1.6253 -1.5582 -1.4845

ALPHA ( 2 ) = -3.842 BETA ( 2 ) = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 9W .3170 .4120 .5070 .6020 .6970 .7920

/10V  
 .1038 -1.6076 -1.6224 -1.5545 -1.5714 -1.5400 -1.4600  
 .797 -1.6309 -1.6336 -1.5767 -1.5932 -1.5000 -1.4524  
 .936 -1.6336 -1.6355 -1.5928 -1.5952 -1.5333 -1.4472  
 .997 -1.6388 -1.6413 -1.6164 -1.5928 -1.5288 -1.4520  
 .999 -1.6432 -1.6463 -1.6173 -1.5949 -1.5233 -1.4435

ALPHA ( 3 ) = -3.888 BETA ( 3 ) = .191 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 9W .3170 .4120 .5070 .6020 .6970 .7920

/10V  
 .1038 -1.6736 -1.6916 -1.6377 -1.6738 -1.5208 -1.4337  
 .797 -1.6940 -1.7033 -1.6470 -1.6945 -1.5000 -1.4332  
 .936 -1.6955 -1.7055 -1.6555 -1.6955 -1.5105 -1.4239  
 .997 -1.7013 -1.7073 -1.6810 -1.6955 -1.5060 -1.4249  
 .999 -1.7016 -1.7016 -1.6984 -1.6955 -1.4915 -1.4209

# PARAMETRIC DATA

RUDDER = 10.000 SPEEDK = 55.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = .600

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEDK42)

ALPHA ( 1 ) = -3.983 BETA ( 4 ) = 4.273 MACH = .59622 Q = 593.85 P = 2386.3 RV/L = 4.8696

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4531 -.4921 -.5251 -.5327 -.4910 -.4330  
 .757 -.4590 -.4798 -.5201 -.5367 .0000 -.4253  
 .805 -.4710 -.5055 -.5562 -.5301 -.4891 -.4218  
 .887 -.4847 -.5373 -.5624 -.5334 -.4810 -.4159  
 .968 -.4970 -.5567 -.5562 -.5286 -.4837 -.4111

ALPHA ( 1 ) = -3.999 BETA ( 5 ) = 8.343 MACH = .59622 Q = 593.85 P = 2386.3 RV/L = 4.8696

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4937 -.5112 -.5565 -.5585 -.5108 -.4282  
 .757 -.4935 -.5190 -.5711 -.5535 .0000 -.4182  
 .805 -.4934 -.5234 -.5575 -.5492 -.4899 -.4210  
 .887 -.5197 -.5685 -.5906 -.5547 -.4913 -.4116  
 .968 -.5367 -.5891 -.5887 -.5454 -.4782 -.3990

ALPHA ( 2 ) = -.003 BETA ( 1 ) = -7.885 MACH = .59612 Q = 593.61 P = 2386.1 RV/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6126 -.6492 -.7095 -.7278 -.6365 -.4934  
 .757 -.6159 -.6634 -.7362 -.7152 .0000 -.4908  
 .805 -.6114 -.6799 -.7631 -.7276 -.6200 -.4860  
 .887 -.6246 -.6992 -.7503 -.7035 -.6105 -.4725  
 .968 -.6360 -.7263 -.7579 -.7073 -.6029 -.4668

ALPHA ( 2 ) = .104 BETA ( 2 ) = -3.860 MACH = .59612 Q = 593.61 P = 2386.1 RV/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5330 -.5488 -.6056 -.6173 -.5682 -.4778  
 .757 -.5243 -.5517 -.6230 -.6168 .0000 -.4792  
 .805 -.5368 -.5670 -.6304 -.6251 -.5656 -.4614  
 .887 -.5422 -.6060 -.6425 -.6199 -.5613 -.4604  
 .968 -.5736 -.6254 -.6520 -.6187 -.5561 -.4666

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK42)

ALPHA ( 2 ) = .114 BETA ( 3 ) = .190 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/6V

.709 -.4985 -.5205 -.5695 -.5943 -.5595 -.4571  
 .757 -.4954 -.5200 -.5865 -.6019 .0000 -.4571  
 .805 -.5099 -.5456 -.5936 -.6048 -.5464 -.4531  
 .897 -.5150 -.5536 -.6253 -.5969 -.5305 -.4490  
 .959 -.5302 -.5377 -.6229 -.5838 -.5307 -.4396

ALPHA ( 2 ) = .111 BETA ( 4 ) = 4.251 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/6V

.709 -.4917 -.5039 -.5523 -.5687 -.5228 -.4394  
 .757 -.4890 -.5159 -.5675 -.5782 .0000 -.4477  
 .805 -.4951 -.5216 -.5727 -.5673 -.5228 -.4406  
 .897 -.5067 -.5674 -.6105 -.5989 -.5081 -.4323  
 .959 -.5284 -.5809 -.6029 -.5744 -.5133 -.4318

ALPHA ( 2 ) = .040 BETA ( 5 ) = 8.310 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/6V

.709 -.5318 -.5501 -.6000 -.6045 -.5524 -.4399  
 .757 -.5306 -.5609 -.6169 -.6197 .0000 -.4522  
 .805 -.5454 -.5914 -.6247 -.6181 -.5317 -.4394  
 .897 -.5454 -.6097 -.6491 -.6102 -.5156 -.4282  
 .959 -.5750 -.6440 -.6461 -.6026 -.5222 -.4087

ALPHA ( 3 ) = 4.041 BETA ( 1 ) = -7.899 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/6V

.709 -.6236 -.7354 -.7839 -.7989 -.6884 -.5046  
 .757 -.6813 -.7467 -.8232 -.7901 .0000 -.5039  
 .805 -.6730 -.7651 -.8433 -.8005 -.6656 -.4737  
 .897 -.6213 -.7222 -.8437 -.7863 -.6497 -.4598  
 .959 -.7008 -.8299 -.8528 -.7979 -.6512 -.4267

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK42)

RV/L = 4.8833

P

Q = 594.79

MACH = .59674

BETA ( 2 ) = -3.860

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5504 -.5575 -.6157 -.6438 -.5841 -.4730  
 .757 -.5306 -.5617 -.6376 -.6423 .0000 -.4628  
 .805 -.5393 -.5836 -.6659 -.6471 -.5704 -.4647  
 .887 -.5532 -.6155 -.6875 -.6338 -.5749 -.4494  
 .968 -.5723 -.6628 -.6777 -.6433 -.5675 -.4461

ALPHA ( 3 ) = 4.049 BETA ( 3 ) = .193 MACH = .59674 Q = 594.79 P = 2386.0 RV/L = 4.8833

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5178 -.5489 -.5927 -.6291 -.5680 -.4852  
 .757 -.5263 -.5569 -.6253 -.6208 .0000 -.4873  
 .805 -.5395 -.5701 -.6298 -.6229 -.5718 -.4771  
 .887 -.5513 -.5945 -.6509 -.6203 -.5614 -.4682  
 .968 -.5559 -.6263 -.6459 -.6229 -.5502 -.4684

ALPHA ( 3 ) = 3.947 BETA ( 4 ) = 4.242 MACH = .59674 Q = 594.79 P = 2386.0 RV/L = 4.8833

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4841 -.5173 -.5719 -.5871 -.5382 -.4420  
 .757 -.4935 -.5131 -.5852 -.5892 .0000 -.4301  
 .805 -.4989 -.5302 -.5973 -.5947 -.5265 -.4280  
 .887 -.5168 -.5790 -.6239 -.5828 -.5220 -.4255  
 .968 -.5390 -.6039 -.6134 -.5892 -.5284 -.4147

ALPHA ( 3 ) = 3.985 BETA ( 5 ) = 9.292 MACH = .59674 Q = 594.79 P = 2386.0 RV/L = 4.8833

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5625 -.6006 -.6643 -.6780 -.5682 -.4599  
 .757 -.5655 -.5975 -.6747 -.6538 .0000 -.4502  
 .805 -.5818 -.6230 -.6875 -.6773 -.5610 -.4364  
 .887 -.5924 -.6724 -.6939 -.6450 -.5534 -.4291  
 .968 -.6300 -.7131 -.7127 -.6493 -.5340 -.4039



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK42)

ALPHA ( 4 ) = 7.905 BETA ( 1 ) = -7.888 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6370	-.6759	-.7697	-.7554	-.6055	-.3979
.757	-.6344	-.6895	-.7820	-.7402	.0000	-.3998
.805	-.6295	-.7230	-.7961	-.7562	-.5844	-.3789
.887	-.6464	-.7755	-.8185	-.7419	-.5568	-.3724
.968	-.6688	-.7978	-.8374	-.7402	-.5324	-.3665

ALPHA ( 4 ) = 7.915 BETA ( 2 ) = -3.855 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5601	-.5787	-.6399	-.6666	-.6028	-.4904
.757	-.5620	-.5852	-.6513	-.6547	.0000	-.4797
.805	-.5650	-.6124	-.6927	-.6806	-.5964	-.4821
.887	-.5749	-.6425	-.7034	-.6689	-.5822	-.4568
.958	-.5959	-.6908	-.7072	-.6637	-.5681	-.4601

ALPHA ( 4 ) = 8.038 BETA ( 3 ) = .180 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5404	-.5793	-.6354	-.6581	-.6038	-.5067
.757	-.5508	-.5640	-.6403	-.6401	.0000	-.4877
.805	-.5430	-.5924	-.6579	-.6657	-.5841	-.4908
.887	-.5658	-.6224	-.6866	-.6475	-.5748	-.4759
.958	-.5890	-.6587	-.6934	-.6510	-.5760	-.4715

ALPHA ( 4 ) = 8.035 BETA ( 4 ) = 4.244 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5125	-.5393	-.5876	-.6173	-.5693	-.4662
.757	-.5047	-.5457	-.6063	-.6256	.0000	-.4688
.805	-.5190	-.5476	-.6265	-.6147	-.5467	-.4579
.887	-.5421	-.5968	-.6498	-.6192	-.5456	-.4422
.958	-.5619	-.6441	-.6434	-.6196	-.5327	-.4233

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ALPHA ( 4 ) = 8.035 BETA ( 5 ) = 8.296 MACH = .59644 Q = 594.20 P = 2385.1 RN/L = 4.8825  
(XEBK42)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .708 -.5447 -.5828 -.6631 -.6676 -.5474 -.3979  
 .757 -.5565 -.5908 -.6871 -.6653 .0000 -.3946  
 .805 -.5354 -.6167 -.6935 -.6539 -.5395 -.3967  
 .887 -.6040 -.6649 -.7144 -.6416 -.5151 -.3846  
 .959 -.6170 -.7105 -.7201 -.6356 -.4890 -.3415

ALPHA ( 5 ) = 11.910 BETA ( 1 ) = -7.853 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .708 -.6715 -.6975 -.7995 -.7802 -.6232 -.4382  
 .757 -.6727 -.7220 -.8181 -.7673 .0000 -.4296  
 .805 -.5760 -.7538 -.8358 -.7838 -.6170 -.4232  
 .887 -.6621 -.7994 -.8542 -.7697 -.6020 -.4145  
 .958 -.7093 -.8443 -.8635 -.7578 -.5825 -.4100

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = -3.836 MACH = .59658 Q = 594.43 P = 2385.3 RN/L = 4.8825

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .708 -.5706 -.5961 .6730 -.6839 -.5983 -.4630  
 .757 -.5812 -.6149 -.6894 -.6944 .0000 -.4566  
 .805 -.5798 -.6307 -.7070 -.6863 -.5869 -.4535  
 .887 -.5810 -.6646 -.7367 -.6796 -.5757 -.4312  
 .958 -.6126 -.7041 -.7363 -.6789 -.5659 -.4236

ALPHA ( 5 ) = 11.955 BETA ( 3 ) = .177 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV  
 .708 -.5757 -.6009 -.6563 -.6891 -.6247 -.5154  
 .757 -.5665 -.5957 -.6813 -.6827 .0000 -.5040  
 .805 -.5743 -.6030 -.6928 -.6822 -.6138 -.5054  
 .887 -.5926 -.6645 -.7041 -.6758 -.5924 -.4890  
 .958 -.6120 -.6915 -.7179 -.6775 -.5967 -.4915

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 AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK42)  
 ALPHA ( 5 ) = 11.975 BETA ( 4 ) = 4.252 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.738 -.5153 -.5523 -.6221 -.6416 -.5777 -.4662  
 .757 -.5255 -.5577 -.6432 -.6501 .0000 -.4636  
 .805 -.5222 -.5707 -.6465 -.6518 -.5484 -.4605  
 .897 -.5516 -.6142 -.6768 -.6349 -.5499 -.4424  
 .968 -.5712 -.6533 -.6755 -.6367 -.5503 -.4445

ALPHA ( 5 ) = 12.034 BETA ( 5 ) = 8.318 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.738 -.5319 -.6215 -.6868 -.7034 -.6151 -.4507  
 .757 -.5721 -.6252 -.7162 -.7119 .0000 -.4666  
 .805 -.6113 -.6433 -.7332 -.7348 -.5914 -.4535  
 .897 -.6469 -.6893 -.7618 -.7060 -.5724 -.4265  
 .968 -.6541 -.7395 -.7632 -.6875 -.5477 -.3964

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 AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK43) ( 13 AUG 75 )

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 22.500 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = .900

ALPHA ( 1 ) = -4.070 BETA ( 1 ) = -3.850 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4584 -.4898 -.5314 -.5724 -.5257 -.4515  
 .757 -.4718 -.4927 -.5508 -.5783 -.5000 -.4484  
 .805 -.4752 -.5066 -.5785 -.5797 -.5198 -.4437  
 .887 -.4936 -.5409 -.5901 -.5738 -.5210 -.4309  
 .968 -.5149 -.5695 -.6032 -.5667 -.5117 -.4229

ALPHA ( 1 ) = -4.059 BETA ( 2 ) = .187 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4338 -.4574 -.4902 -.5278 -.5058 -.4241  
 .757 -.4495 -.4591 -.5070 -.5333 -.5000 -.4255  
 .805 -.4624 -.4763 -.5288 -.5321 -.5018 -.4291  
 .887 -.4708 -.4930 -.5404 -.5361 -.4980 -.4242  
 .968 -.4909 -.5395 -.5557 -.5460 -.4937 -.4189

ALPHA ( 1 ) = -4.078 BETA ( 3 ) = 4.272 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4637 -.4802 -.5339 -.5635 -.5275 -.4411  
 .757 -.4695 -.4913 -.5540 -.5762 -.5000 -.4423  
 .805 -.4886 -.5095 -.5819 -.5865 -.5235 -.4366  
 .887 -.4981 -.5551 -.5938 -.5807 -.5178 -.4371  
 .968 -.5352 -.5891 -.6032 -.5848 -.5107 -.4357

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R CARB SPEED BRAKE  
 BETA ( 1 ) = -.023 BETA ( 2 ) = -.023 MACH = .89677 0 = 597.91 P = 1062.1 RN/L = 3.6486

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4925 -.5031 -.5529 -.5844 -.5508 -.4608  
 .757 -.4939 -.5184 -.5827 -.5981 .0000 -.4582  
 .805 -.4934 -.5345 -.6021 -.6090 -.5418 -.4558  
 .857 -.5030 -.5735 -.6177 -.6092 -.5370 -.4354  
 .905 -.5340 -.6075 -.6369 -.6000 -.5226 -.4269

ALPHA ( 2 ) = -.015 BETA ( 2 ) = .185 MACH = .89677 0 = 597.91 P = 1062.1 RN/L = 3.6486

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4615 -.4928 -.5151 -.5503 -.5423 -.4610  
 .757 -.4660 -.4823 -.5369 -.5698 .0000 -.4475  
 .805 -.4639 -.5050 -.5806 -.5734 -.5279 -.4561  
 .857 -.4822 -.5641 -.5795 -.5776 -.5331 -.4505  
 .905 -.5031 -.5803 -.5929 -.5771 -.5207 -.4405

ALPHA ( 2 ) = -.021 BETA ( 3 ) = .4247 MACH = .89677 0 = 597.91 P = 1062.1 RN/L = 3.6486

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4832 -.5065 -.5505 -.6041 -.5652 -.4525  
 .757 -.4938 -.5101 -.5797 -.6237 .0000 -.4442  
 .805 -.5123 -.5264 -.6055 -.6181 -.5534 -.4388  
 .857 -.5333 -.5811 -.6280 -.6173 -.5451 -.4364  
 .905 -.5538 -.6105 -.6493 -.6240 -.5345 -.4284

ALPHA ( 3 ) = 3.931 BETA ( 1 ) = -3.870 MACH = .89677 0 = 597.91 P = 1062.1 RN/L = 3.6364

SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.4910 -.5102 -.5613 -.6047 -.5596 -.4429  
 .757 -.4937 -.5144 -.5855 -.6163 .0000 -.4403  
 .805 -.5021 -.5431 -.6145 -.6237 -.5530 -.4433  
 .857 -.5216 -.5821 -.6391 -.6224 -.5494 -.4215  
 .905 -.5421 -.6202 -.6612 -.6339 -.5328 -.4103

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XE8043)

ALPHA ( 3 ) = 3.931 BETA ( 2 ) = .185 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4650 -.4815 -.5189 -.5634 -.5409 -.4554  
 .757 -.4690 -.4870 -.5516 -.5840 .0000 -.4514  
 .805 -.4930 -.5052 -.5731 -.5826 -.5376 -.4491  
 .887 -.4915 -.5368 -.5851 -.5906 -.5324 -.4406  
 .968 -.5130 -.5755 -.6341 -.5845 -.5198 -.4342

ALPHA ( 3 ) = 3.933 BETA ( 3 ) = 4.242 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.877 -.5260 -.5904 -.6183 -.5681 -.4485  
 .757 -.5252 -.5286 -.5251 -.6449 .0000 -.4345  
 .805 -.5151 -.5504 -.5302 -.6406 -.5535 -.4340  
 .887 -.5424 -.5925 -.6895 -.6420 -.5454 -.4293  
 .968 -.5935 -.6413 -.6230 -.6259 -.5413 -.4049

ALPHA ( 1 ) = 7.928 BETA ( 1 ) = -3.866 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.5176 -.5320 -.5959 -.6440 -.5757 -.4397  
 .757 -.5199 -.5457 -.6333 -.6535 .0000 -.4342  
 .805 -.5311 -.5654 -.6637 -.6508 -.5646 -.4392  
 .887 -.5327 -.6087 -.6855 -.6506 -.5506 -.4155  
 .968 -.5555 -.6612 -.7035 -.6435 -.5319 -.3930

ALPHA ( 4 ) = 8.006 BETA ( 2 ) = .190 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4450 -.4840 -.5324 -.5886 -.5388 -.4407  
 .757 -.4471 -.4963 -.5550 -.6123 .0000 -.4360  
 .805 -.4812 -.5141 -.5964 -.5974 -.5315 -.4310  
 .887 -.5044 -.5547 -.6128 -.6116 -.5263 -.4179  
 .968 -.5314 -.5952 -.6159 -.6012 -.5234 -.4129

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK43)  
 P = 1062.9 RN/L = 3.6129

AMES 11-073(0A148) -140A/9/C/R ORB SPEED BRAKE

BETA ( 3 ) = 4.244 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6129

DEPENDENT VARIABLE CP

SECTION ( UPRIGHT HAND INSIDE

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 5 ) = 11.977 BETA ( 1 ) = -3.853 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

DEPENDENT VARIABLE CP

SECTION ( UPRIGHT HAND INSIDE

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 5 ) = 11.998 BETA ( 2 ) = 4.261 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

DEPENDENT VARIABLE CP

SECTION ( UPRIGHT HAND INSIDE

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 5 ) = 11.978 BETA ( 3 ) = 4.261 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

DEPENDENT VARIABLE CP

SECTION ( UPRIGHT HAND INSIDE

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

ALPHA ( 5 ) = 11.978 BETA ( 3 ) = 4.261 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.6129

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TABULATED PREURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.932 BETA ( 4 ) = 4.269 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840  
 (XEBK44)

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5384 -.5759 -.6714 -.6474 -.5574 -.4089  
 .757 -.5455 -.5981 -.6935 -.6786 -.6000 -.4008  
 .805 -.5756 -.6311 -.7183 -.6633 -.5415 -.3985  
 .857 -.6014 -.6953 -.7271 -.6554 -.5165 -.3813  
 .909 -.5557 -.7326 -.7459 -.6349 -.4875 -.3558

ALPHA ( 1 ) = -4.007 BETA ( 5 ) = 8.349 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5305 -.6979 -.8027 -.7355 -.5299 -.3227  
 .757 -.6477 -.7252 -.8533 -.7435 -.6000 -.3173  
 .805 -.6762 -.7681 -.8652 -.7298 -.5250 -.3218  
 .857 -.7438 -.8561 -.8772 -.7070 -.4819 -.3167  
 .909 -.8196 -.9239 -.8523 -.6670 -.4323 -.2821

ALPHA ( 2 ) = .039 BETA ( 1 ) = -7.886 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7320 -.7508 -.9323 -.8206 -.5977 -.3464  
 .757 -.7334 -.7507 -.9473 -.8502 -.6000 -.3357  
 .805 -.7325 -.7514 -.9350 -.8326 -.5507 -.3091  
 .857 -.7577 -.8176 -.9317 -.7927 -.5267 -.3123  
 .909 -.8127 -.8940 -.9355 -.7517 -.4561 -.2788

ALPHA ( 2 ) = .052 BETA ( 2 ) = -3.866 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5914 -.6195 -.7250 -.6840 -.5713 -.3914  
 .757 -.5987 -.6325 -.7362 -.7118 -.6000 -.3959  
 .805 -.6019 -.6571 -.7505 -.7001 -.5561 -.3845  
 .857 -.6297 -.7423 -.7392 -.6925 -.5347 -.3679  
 .909 -.6705 -.7723 -.7261 -.6909 -.5257 -.3587

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(XEROX)

AMES 11-07310A(48) - 140A/B/C/R ORB SPEED BRAKE

ALPHA ( 2 ) = .053 BETA ( 3 ) = .192 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.009 -.5992 -.5932 -.7115 -.6924 -.5787 -.4062  
 .757 -.5996 -.6071 -.7395 -.7013 -.6000 -.3995  
 .815 -.5942 -.6463 -.7510 -.6939 -.5609 -.3933  
 .937 -.6211 -.7323 -.7772 -.6932 -.5416 -.3876  
 .999 -.6718 -.7735 -.7745 -.6698 -.5230 -.3654

ALPHA ( 2 ) = .049 BETA ( 4 ) = 4.248 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.009 -.5939 -.6324 -.7173 -.6947 -.5689 -.3912  
 .757 -.6003 -.6404 -.7541 -.7261 -.6000 -.3757  
 .815 -.6235 -.6852 -.7767 -.7049 -.5427 -.3658  
 .937 -.6555 -.7598 -.8177 -.6859 -.5040 -.3528  
 .999 -.7152 -.8101 -.8045 -.6616 -.4835 -.3238

ALPHA ( 2 ) = .044 BETA ( 5 ) = 8.307 MACH = .59632 Q = 593.96 P = 2386.1 RN/L = 4.8783

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.009 -.5922 -.7343 -.6979 -.7598 -.5008 -.2874  
 .757 -.6957 -.7868 -.9337 -.7826 -.0000 -.2855  
 .815 -.7173 -.8534 -.9385 -.7393 -.4775 -.2605  
 .937 -.8152 -.9701 -.9438 -.7044 -.4501 -.2654  
 .999 -.9775 -1.0185 -.8857 -.6349 -.3980 -.2445

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -7.902 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.009 -.7477 -.7999 -.9378 -.8173 -.5736 -.3464  
 .757 -.7458 -.8173 -.9574 -.8352 -.0000 -.3683  
 .815 -.7552 -.8307 -.9377 -.8140 -.5551 -.3067  
 .937 -.7773 -.8355 -.9925 -.7793 -.5009 -.2863  
 .999 -.8335 -.9694 -.9895 -.7519 -.4467 -.2623

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.93+ BETA ( 2 ) = -3.864 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785  
 (XEBK44)

SECTION ( LURIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.5934	-.6307	-.7163	-.6738	-.5405	-.3364
.757	-.5934	-.6335	-.7453	-.6861	.0000	-.3315
.805	-.6316	-.6881	-.7704	-.6793	-.5014	-.3376
.857	-.6222	-.7610	-.7835	-.6626	-.4976	-.3284
.893	-.6305	-.7698	-.7804	-.6555	-.4767	-.3287

ALPHA ( 3 ) = 3.953 BETA ( 3 ) = .189 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION ( LURIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.5565	-.6036	-.7000	-.6914	-.5750	-.4117
.757	-.5820	-.6234	-.7380	-.7192	.0000	-.4053
.805	-.5961	-.6590	-.7658	-.7133	-.5614	-.3974
.857	-.6100	-.7356	-.7951	-.7071	-.5336	-.3864
.893	-.6724	-.8171	-.7910	-.6708	-.5160	-.3553

ALPHA ( 3 ) = 3.972 BETA ( 4 ) = 4.2+3 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION ( LURIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.5993	-.6442	-.7616	-.6724	-.4914	-.2893
.757	-.5915	-.6574	-.7924	-.7093	.0000	-.3004
.805	-.6242	-.7174	-.8055	-.6923	-.4651	-.2921
.857	-.6701	-.8172	-.8231	-.6858	-.4439	-.2797
.893	-.7742	-.9533	-.8060	-.6280	-.4031	-.2582

ALPHA ( 3 ) = 3.982 BETA ( 5 ) = 8.290 MACH = .59694 Q = 595.02 P = 2385.4 RN/L = 4.8785

SECTION ( LURIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.703	-.7005	-.7605	-.9035	-.7502	-.5315	-.2836
.757	-.7045	-.7693	-.9312	-.7456	.0000	-.2764
.805	-.7205	-.8023	-.9400	-.7295	-.4751	-.2707
.857	-.7536	-.8735	-.9339	-.6908	-.4222	-.2534
.893	-.8531	-.9916	-.8878	-.6350	-.3895	-.2398

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK44)

ALPHA ( 4 ) = 8.025 BETA ( 1 ) = -7.890 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6589	-.7144	-.8139	-.6694	-.4226	-.2881
.757	-.6595	-.7452	-.8414	-.6822	-.0000	-.2669
.805	-.6566	-.8027	-.8483	-.6589	-.4057	-.2735
.887	-.6525	-.8713	-.8442	-.6404	-.3799	-.2689
.968	-.7438	-.8342	-.8576	-.6159	-.3627	-.2718

ALPHA ( 4 ) = 8.036 BETA ( 2 ) = -3.859 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5362	-.6195	-.7067	-.6733	-.5190	-.3313
.757	-.5310	-.6334	-.7541	-.6957	-.0000	-.3363
.805	-.5342	-.6173	-.7500	-.6790	-.4954	-.3135
.887	-.6122	-.7392	-.7710	-.6605	-.4816	-.3087
.968	-.6592	-.8005	-.7805	-.6512	-.4816	-.3122

ALPHA ( 4 ) = 8.040 BETA ( 3 ) = .178 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5841	-.6382	-.7428	-.7038	-.5779	-.3870
.757	-.5948	-.6292	-.7464	-.7271	-.0000	-.3813
.805	-.5990	-.6804	-.7778	-.7124	-.5641	-.3820
.887	-.6429	-.7354	-.7878	-.6955	-.5291	-.3677
.968	-.6908	-.7995	-.8007	-.6790	-.5222	-.3950

ALPHA ( 4 ) = 8.039 BETA ( 4 ) = 4.241 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5598	-.6237	-.7459	-.6772	-.5048	-.3041
.757	-.5932	-.6395	-.7225	-.7074	-.0000	-.2993
.805	-.6144	-.7042	-.7987	-.6950	-.4838	-.2962
.887	-.6651	-.7845	-.8106	-.6475	-.4558	-.2821
.968	-.7398	-.8217	-.8154	-.6223	-.4075	-.2597

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK44)

ALPHA ( 4 ) = 8.039 BETA ( 5 ) = 8.285 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6462	-.7026	-.8229	-.6705	-.4493	-.2723
.757	-.6441	-.7606	-.8363	-.6902	.0000	-.2793
.805	-.6833	-.8266	-.8578	-.6505	-.4228	-.2707
.887	-.7521	-.9128	-.8499	-.5962	-.3947	-.2683
.968	-.8298	-.9383	-.7976	-.5326	-.3452	-.2616

ALPHA ( 5 ) = 12.021 BETA ( 1 ) = -7.852 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6732	-.7378	-.8402	-.7100	-.4926	-.3094
.757	-.5785	-.7628	-.8524	-.7250	.0000	-.3115
.805	-.6733	-.8067	-.9789	-.6879	-.4664	-.3068
.887	-.7012	-.8606	-.8785	-.6821	-.4516	-.3028
.958	-.7668	-.8906	-.6696	-.6728	-.4497	-.3033

ALPHA ( 5 ) = 11.932 BETA ( 2 ) = -3.840 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6004	-.6340	-.7510	-.6711	-.4977	-.3093
.757	-.5947	-.6434	-.7472	-.6894	.0000	-.3011
.805	-.5995	-.6928	-.7746	-.6742	-.4621	-.3128
.887	-.6359	-.7541	-.7349	-.6515	-.4662	-.2802
.968	-.6350	-.6169	-.7887	-.6425	-.4590	-.2906

ALPHA ( 5 ) = 11.946 BETA ( 3 ) = .176 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5987	-.6420	-.7411	-.7148	-.5780	-.3941
.757	-.6004	-.6540	-.7655	-.7292	.0000	-.3795
.805	-.5182	-.7039	-.8048	-.7330	-.5610	-.3728
.887	-.6523	-.7723	-.8217	-.7072	-.5399	-.3672
.968	-.7171	-.8295	-.8396	-.6823	-.5105	-.3286

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBR44)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA ( 5 ) = 11.941 BETA ( 4 ) = 4.247 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION : 1 RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5359	-.6529	-.7644	-.6802	-.4964	-.3033
.757	-.6013	-.6562	-.7942	-.7039	.0000	-.3019
.805	-.6263	-.7164	-.8133	-.6882	-.4724	-.2843
.897	-.6731	-.8064	-.8254	-.6508	-.4392	-.2928
.958	-.7385	-.8532	-.7980	-.6270	-.3975	-.2591

ALPHA ( 5 ) = 11.928 BETA ( 5 ) = 8.307 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION : 1 RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.6473	-.7076	-.8440	-.7072	-.4728	-.2973
.757	-.6549	-.7542	-.8738	-.7163	.0000	-.2959
.805	-.6223	-.8496	-.8925	-.6949	-.4465	-.2864
.897	-.7834	-.9322	-.8754	-.6365	-.4153	-.2802
.958	-.6344	-.9305	-.8256	-.5749	-.3728	-.2663

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(XEBK45) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R OR8 SPEED BRAKE

REFERENCE DATA

SELF = 2390.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 SELF = 474.8000 IN. YMRP = .0000 IN. YO  
 SELF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SFD8RK = 55.000  
 BDFLAP = 22.500 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = .900

ALPHA ( 1 ) = -3.961 BETA ( 1 ) = -3.852 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4661 -.4748 -.5167 -.5478 -.5212 -.4274  
 .757 -.4710 -.4786 -.5300 -.5568 -.0000 -.4302  
 .805 -.4699 -.4999 -.5532 -.5674 -.5087 -.4281  
 .887 -.4703 -.5235 -.5786 -.5667 -.5039 -.4172  
 .968 -.5070 -.5707 -.5857 -.5587 -.5006 -.4001

ALPHA ( 1 ) = -3.932 BETA ( 2 ) = .188 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4261 -.4453 -.4767 -.5128 -.4874 -.4165  
 .757 -.4410 -.4470 -.4867 -.5118 -.0000 -.4193  
 .805 -.4358 -.4552 -.5102 -.5149 -.4888 -.4160  
 .887 -.4470 -.4884 -.5341 -.5332 -.4758 -.4038  
 .968 -.4692 -.5152 -.5522 -.5292 -.4765 -.3962

ALPHA ( 1 ) = -3.942 BETA ( 3 ) = 4.270 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.6441

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4557 -.4824 -.5302 -.5482 -.5182 -.4316  
 .757 -.4567 -.4791 -.5468 -.5596 -.0000 -.4200  
 .805 -.4737 -.5008 -.5643 -.5591 -.5123 -.4218  
 .887 -.4923 -.5395 -.5849 -.5648 -.5047 -.4198  
 .968 -.5195 -.5722 -.6041 -.5691 -.4945 -.4042

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBK45)  
RN/L = 3.6228

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE  
P = 597.56 Q = .89660 MACH = -3.868

ALPHA ( 2 ) = .010 BETA ( 1 ) = .025 BETA ( 2 ) = .185 MACH = .89660  
SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.709 -.4655 -.4921 -.5344 -.5714 -.5361 -.4427  
.757 -.4765 -.4974 -.5509 -.5861 .0000 -.4372  
.805 -.4898 -.5151 -.5870 -.5861 -.5254 -.4318  
.897 -.4900 -.5573 -.6091 -.5996 -.5209 -.4195  
.958 -.5182 -.5953 -.6193 -.5925 -.5069 -.4096

ALPHA ( 2 ) = .025 BETA ( 1 ) = .025 BETA ( 2 ) = .185 MACH = .89660 P = 597.56 Q = .89660 RN/L = 3.6228

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.709 -.4276 -.4572 -.4910 -.5308 -.5106 -.4280  
.757 -.4387 -.4585 -.5116 -.5454 .0000 -.4273  
.805 -.4477 -.4697 -.5428 -.5483 -.5047 -.4188  
.897 -.4657 -.5125 -.5592 -.5578 -.5002 -.4226  
.958 -.4827 -.5372 -.5668 -.5580 -.4926 -.4142

ALPHA ( 2 ) = .019 BETA ( 1 ) = .019 BETA ( 3 ) = 4.247 MACH = .89660 P = 597.56 Q = .89660 RN/L = 3.6228

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.709 -.4655 -.4678 -.5392 -.5759 -.5352 -.4331  
.757 -.4785 -.4880 -.5665 -.5958 .0000 -.4135  
.805 -.4866 -.5157 -.5929 -.5918 -.5264 -.4192  
.897 -.5135 -.5843 -.6209 -.5899 -.5205 -.4131  
.958 -.5507 -.6118 -.6294 -.5932 -.5069 -.3982

ALPHA ( 3 ) = 3.945 BETA ( 1 ) = -3.873 MACH = .89637 P = 599.08 Q = .89637 RN/L = 3.6099

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.709 -.4594 -.4680 -.5483 -.5790 -.5293 -.4308  
.757 -.4904 -.5004 -.5853 -.5930 .0000 -.4073  
.805 -.4899 -.5135 -.6030 -.6015 -.5314 -.4071  
.897 -.5034 -.5512 -.6202 -.6051 -.5227 -.4002  
.958 -.5232 -.5814 -.6355 -.6085 -.5073 -.4009



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AMES 11-073(OAI48) -140A/B/C/R ORB SPEED BRAKE (XEBK45) RN/L = 3.6099 P = 599.08 Q = 1060.5

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4458 -.4659 -.5024 -.5446 -.5152 -.4361  
 .757 -.4519 -.4692 -.5266 -.5609 .0000 -.4290  
 .805 -.4675 -.4909 -.5548 -.5849 -.5209 -.4302  
 .887 -.4801 -.5108 -.5649 -.5749 -.5095 -.4168  
 .968 -.4945 -.5617 -.5912 -.5697 -.5074 -.4119

ALPHA ( 3 ) = 3.937 BETA ( 3 ) = 4.239 MACH = .89837 Q = 599.08 P = 1060.5 RN/L = 3.6099

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4657 -.4901 -.5546 -.5820 -.5335 -.4116  
 .757 -.4897 -.5037 -.5877 -.6127 .0000 -.4054  
 .805 -.5078 -.5252 -.6120 -.6082 -.5307 -.4045  
 .887 -.5187 -.5716 -.6345 -.6044 -.5099 -.3929  
 .968 -.5527 -.6210 -.6503 -.5983 -.4955 -.3920

ALPHA ( 4 ) = 7.970 BETA ( 1 ) = -3.868 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4931 -.5054 -.5852 -.6091 -.5513 -.4050  
 .757 -.5042 -.5175 -.6015 -.6159 .0000 -.4024  
 .805 -.5033 -.5438 -.6301 -.6280 -.5347 -.4053  
 .887 -.5123 -.5361 -.6544 -.6261 -.5253 -.3941  
 .968 -.5506 -.6325 -.6805 -.6136 -.5151 -.3789

ALPHA ( 4 ) = 7.979 BETA ( 2 ) = .177 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4455 -.4724 -.5158 -.5558 -.5196 -.4282  
 .757 -.4538 -.4763 -.5376 -.5757 .0000 -.4180  
 .805 -.4608 -.4976 -.5693 -.5693 -.5073 -.4139  
 .887 -.4763 -.5174 -.5816 -.5797 -.5118 -.4074  
 .968 -.5062 -.5812 -.6017 -.5702 -.4902 -.3873

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK45)

ALPHA ( + ) = 7.978 BETA ( 3 ) = 4.243 MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z'8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4248 -.5194 -.5853 -.6048 -.5470 -.4013  
 .757 -.4325 -.5242 -.6128 -.6192 -.0000 -.3899  
 .805 -.5050 -.5450 -.6353 -.6223 -.5162 -.3980  
 .837 -.5424 -.6046 -.6678 -.6157 -.5055 -.3855  
 .869 -.5772 -.6553 -.6694 -.6119 -.4957 -.3718

ALPHA ( 5 ) = 11.950 BETA ( 1 ) = -3.856 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z'8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5224 -.5522 -.6118 -.6433 -.5621 -.4480  
 .757 -.5227 -.5570 -.6388 -.6475 -.0000 -.4454  
 .805 -.5408 -.5758 -.6688 -.6513 -.5540 -.4430  
 .837 -.5590 -.6318 -.6936 -.6546 -.5453 -.4248  
 .869 -.5900 -.6737 -.6979 -.6501 -.5332 -.4129

ALPHA ( 5 ) = 11.961 BETA ( 2 ) = .178 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z'8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4751 -.5045 -.5662 -.5987 -.5399 -.4233  
 .757 -.4927 -.5194 -.5804 -.6105 -.0000 -.4281  
 .805 -.5122 -.5419 -.6149 -.6190 -.5304 -.4207  
 .837 -.5197 -.5735 -.6356 -.6169 -.5145 -.4084  
 .869 -.5464 -.6221 -.6559 -.6003 -.5117 -.4008

ALPHA ( 5 ) = 11.950 BETA ( 3 ) = 4.259 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z'8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5284 -.5554 -.6251 -.6281 -.5544 -.4281  
 .757 -.5357 -.5644 -.6616 -.6521 -.0000 -.4160  
 .805 -.5505 -.5832 -.6936 -.6499 -.5493 -.4108  
 .837 -.5639 -.6528 -.7087 -.6947 -.5186 -.3996  
 .869 -.5817 -.6895 -.7180 -.6362 -.5179 -.3606

(XEBK46) ( 13 AUG 75 )

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )  
ANES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

REFERENCE DATA  
 QREF = 2090.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 UREF = 474.8000 IN. YMRP = 1076.6800 IN. YO  
 ZREF = 935.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = 55.000  
 BDFLAP = 22.500 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = .500

ALPHA ( 1 ) = -4.081 BETA ( 1 ) = -7.851 MACH = .59592 Q = 593.39 P = 2387.4 RV/L = 4.8516

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -1.6395 -1.6596 -1.7801 -1.7341 -1.5675 -1.3931  
 .757 -1.6174 -1.6879 -1.7981 -1.7554 -1.6000 -1.3779  
 .805 -1.6501 -1.7182 -1.8520 -1.7184 -1.5559 -1.3767  
 .857 -1.6821 -1.7541 -1.9235 -1.7118 -1.5279 -1.3701  
 .909 -1.7016 -1.8431 -1.9363 -1.6917 -1.5333 -1.3630

ALPHA ( 2 ) = -3.953 BETA ( 2 ) = -3.833 MACH = .59592 Q = 593.39 P = 2387.4 RV/L = 4.8516

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -1.5311 -1.5577 -1.6603 -1.6415 -1.5577 -1.4069  
 .757 -1.5479 -1.5755 -1.6717 -1.6560 -1.4052 -1.3779  
 .805 -1.5540 -1.6091 -1.7075 -1.6527 -1.5284 -1.3928  
 .857 -1.5713 -1.6505 -1.7251 -1.6448 -1.5134 -1.3830  
 .909 -1.6197 -1.7059 -1.7318 -1.6436 -1.5029 -1.3538

ALPHA ( 3 ) = -3.951 BETA ( 3 ) = .188 MACH = .59592 Q = 593.39 P = 2387.4 RV/L = 4.8516

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -1.5273 -1.5432 -1.6363 -1.6278 -1.5395 -1.3979  
 .757 -1.5299 -1.5559 -1.6577 -1.6587 -1.5587 -1.3940  
 .805 -1.5387 -1.5634 -1.6637 -1.6451 -1.5321 -1.3857  
 .857 -1.5522 -1.6555 -1.7039 -1.6316 -1.5085 -1.3600  
 .909 -1.5122 -1.7124 -1.7282 -1.6206 -1.5000 -1.3597

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK46)

ALPHA ( 1 ) = -3.959 BETA ( 4 ) = 4.269 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5327	-.3901	-.6661	-.6373	-.5388	-.3956
.757	-.5463	-.5719	-.6728	-.6559	-.0000	-.3902
.805	-.5596	-.6250	-.7042	-.6471	-.5253	-.3849
.857	-.5988	-.6835	-.7218	-.6452	-.5117	-.3709
.908	-.6380	-.7228	-.7294	-.6204	-.4775	-.3579

ALPHA ( 1 ) = -3.973 BETA ( 5 ) = 8.335 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8516

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6078	-.6322	-.7624	-.7020	-.5373	-.3587
.757	-.6274	-.6717	-.7868	-.7305	-.0000	-.3539
.805	-.6573	-.7032	-.8293	-.7160	-.5224	-.3518
.857	-.7013	-.7539	-.8360	-.6922	-.5057	-.3305
.908	-.7542	-.8170	-.8349	-.6649	-.4460	-.3003

ALPHA ( 2 ) = .050 BETA ( 1 ) = -7.888 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7333	-.7545	-.9263	-.8228	-.5942	-.3478
.757	-.7177	-.7784	-.9365	-.8407	-.0000	-.3418
.805	-.7025	-.8204	-.9704	-.8161	-.5589	-.3299
.857	-.7240	-.8907	-.9743	-.7918	-.5246	-.3016
.908	-.8162	-.9461	-.9771	-.7565	-.4803	-.2802

ALPHA ( 2 ) = .070 BETA ( 2 ) = -3.865 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5928	-.5002	-.7077	-.6649	-.5519	-.3897
.757	-.5750	-.5124	-.7241	-.6908	-.0000	-.3764
.805	-.5934	-.5435	-.7325	-.6830	-.5341	-.3693
.857	-.6224	-.5982	-.7334	-.6825	-.5172	-.3490
.908	-.6816	-.6701	-.7680	-.6590	-.5018	-.3556

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK46)

ALPHA ( 2 ) = .070 BETA ( 3 ) = .181 MACH = .59634 Q = 594.08 P = 2386.3 RV/L = 4.8479

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5394	-.5777	-.6999	-.6683	-.5603	-.3943
.757	-.5449	-.5854	-.7144	-.6930	.0000	-.3898
.805	-.5706	-.6211	-.7474	-.6792	-.5496	-.3835
.857	-.6034	-.6993	-.7603	-.6668	-.5308	-.3663
.908	-.6501	-.7577	-.7591	-.6576	-.5023	-.3427

ALPHA ( 2 ) = .058 BETA ( 4 ) = 4.248 MACH = .59634 Q = 594.08 P = 2386.3 RV/L = 4.8479

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5716	-.6142	-.7251	-.6771	-.5459	-.3656
.757	-.5845	-.6392	-.7578	-.6949	.0000	-.3577
.805	-.6003	-.6603	-.7735	-.7009	-.5201	-.3611
.857	-.6438	-.7293	-.7957	-.6748	-.4999	-.3540
.908	-.6932	-.7957	-.7887	-.6496	-.4750	-.3267

ALPHA ( 2 ) = .053 BETA ( 5 ) = 8.306 MACH = .59634 Q = 594.08 P = 2386.3 RV/L = 4.8479

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6657	-.7126	-.8643	-.7524	-.5236	-.2989
.757	-.6786	-.7564	-.8989	-.7709	.0000	-.2772
.805	-.6958	-.8397	-.9258	-.7498	-.4792	-.2846
.857	-.7816	-.9578	-.9123	-.7134	-.4497	-.2610
.908	-.8512	-.9953	-.9025	-.6415	-.4013	-.2403

ALPHA ( 3 ) = 4.012 BETA ( 1 ) = -7.901 MACH = .59704 Q = 595.39 P = 2386.0 RV/L = 4.8469

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7333	-.7870	-.9257	-.8203	-.5925	-.3304
.757	-.7255	-.8077	-.9479	-.8403	.0000	-.3356
.805	-.7422	-.8503	-.9642	-.8129	-.5473	-.2987
.857	-.7624	-.9322	-.9780	-.7824	-.5082	-.2917
.908	-.8057	-.9793	-.9827	-.7561	-.4471	-.2620

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK46)

ALPHA ( 3 ) = 4.016 BETA ( 2 ) = -3.882 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B 3170 4120 5070 6020 6970 7920

X/CV	3170	4120	5070	6020	6970	7920
738	-.5707	-.6171	-.7099	-.6508	-.4973	-.3420
757	-.5747	-.6218	-.7419	-.6881	.0000	-.3223
805	-.5914	-.6932	-.7630	-.6752	-.5016	-.3159
897	-.6216	-.7461	-.7682	-.6522	-.5028	-.3108
959	-.6341	-.8038	-.7754	-.6501	-.4760	-.3061

ALPHA ( 3 ) = 4.027 BETA ( 3 ) = .191 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 2 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B 3170 4120 5070 6020 6970 7920

X/CV	3170	4120	5070	6020	6970	7920
738	-.5831	-.6832	-.6951	-.6781	-.5768	-.4040
757	-.5746	-.6109	-.7263	-.7033	.0000	-.3907
805	-.5962	-.6439	-.7446	-.6940	-.5528	-.3693
897	-.6274	-.7054	-.7698	-.6905	-.5274	-.3516
959	-.6534	-.7531	-.7659	-.6722	-.5115	-.3543

ALPHA ( 3 ) = 4.030 BETA ( 4 ) = 4.239 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 3 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B 3170 4120 5070 6020 6970 7920

X/CV	3170	4120	5070	6020	6970	7920
738	-.5934	-.6526	-.7433	-.6540	-.4837	-.3008
757	-.5971	-.6597	-.7727	-.6917	.0000	-.2961
805	-.6143	-.6797	-.8019	-.6758	-.4676	-.2843
897	-.6395	-.7797	-.8054	-.6331	-.4335	-.2711
959	-.6737	-.8346	-.7898	-.6183	-.3382	-.2588

ALPHA ( 3 ) = 4.035 BETA ( 5 ) = 8.229 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 4 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B 3170 4120 5070 6020 6970 7920

X/CV	3170	4120	5070	6020	6970	7920
738	-.6231	-.7552	-.8053	-.7635	-.5104	-.2929
757	-.6271	-.7881	-.8217	-.7785	.0000	-.2869
805	-.6445	-.8286	-.8425	-.7449	-.4746	-.2895
897	-.6754	-.8994	-.8330	-.7043	-.4229	-.2549
959	-.7345	-.9129	-.8955	-.6335	-.4001	-.2396

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK46)

ALPHA ( 4 ) = 7.995 BETA ( 1 ) = -7.892 MACH = .59670 O = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6753	-.7241	-.8279	-.6797	-.4483	-.2877
.757	-.5555	-.7543	-.8479	-.7151	.0000	-.2850
.805	-.6705	-.7319	-.8570	-.6739	-.4412	-.2682
.853	-.6992	-.8515	-.8655	-.6456	-.4108	-.2634
.897	-.7604	-.9333	-.8518	-.5332	-.3900	-.2818

ALPHA ( 4 ) = 8.007 BETA ( 2 ) = -3.861 MACH = .59670 O = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5683	-.5076	-.6976	-.6504	-.5127	-.3293
.757	-.5704	-.6235	-.7285	-.6704	.0000	-.3229
.805	-.5714	-.6782	-.7531	-.6621	-.4779	-.3168
.853	-.6092	-.7147	-.7586	-.6528	-.4573	-.3046
.897	-.6512	-.7743	-.7707	-.6483	-.4624	-.3058

ALPHA ( 4 ) = 8.012 BETA ( 3 ) = .176 MACH = .59670 O = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5625	-.5355	-.7038	-.6848	-.5726	-.3950
.757	-.5787	-.6035	-.7374	-.7043	.0000	-.3746
.805	-.5954	-.6557	-.7692	-.6948	-.5585	-.3762
.853	-.6150	-.7186	-.7808	-.6808	-.5302	-.3531
.897	-.6807	-.7701	-.7753	-.6730	-.5065	-.3388

ALPHA ( 4 ) = 8.012 BETA ( 4 ) = 4.240 MACH = .59670 O = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5749	-.6203	-.7420	-.6773	-.5026	-.3154
.757	-.5848	-.6357	-.7749	-.7014	.0000	-.2941
.805	-.6145	-.6950	-.7848	-.6879	-.4982	-.2938
.853	-.6605	-.7750	-.8019	-.6571	-.4473	-.2794
.897	-.7192	-.8392	-.7990	-.6283	-.4073	-.2613

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK46)

ALPHA ( 4 ) = 8.009 BETA ( 5 ) = 8.293 MACH = .59570 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6329	-.7205	-.8073	-.6993	-.4595	-.2811
.757	-.6355	-.7314	-.8192	-.6928	-.0000	-.2626
.805	-.6346	-.8139	-.8335	-.6542	-.4232	-.2586
.887	-.7291	-.8946	-.9372	-.6379	-.3877	-.2612
.968	-.8213	-.9317	-.8346	-.5709	-.3668	-.2526

ALPHA ( 5 ) = 11.997 BETA ( 1 ) = -7.852 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6553	-.7166	-.8253	-.6802	-.4823	-.3004
.757	-.6541	-.7480	-.8289	-.7046	-.0000	-.2928
.805	-.6525	-.7792	-.8590	-.5942	-.4666	-.2909
.887	-.6562	-.8435	-.8550	-.6897	-.4453	-.2817
.968	-.7536	-.8945	-.8400	-.6655	-.4458	-.2939

ALPHA ( 5 ) = 12.009 BETA ( 2 ) = -3.842 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6919	-.6101	-.7213	-.6558	-.5113	-.3080
.757	-.6729	-.6232	-.7489	-.6724	-.0000	-.3042
.805	-.6709	-.6742	-.7595	-.6636	-.4867	-.2993
.887	-.6678	-.7326	-.7792	-.6406	-.4544	-.2909
.968	-.6617	-.7932	-.7621	-.6239	-.4428	-.2876

ALPHA ( 5 ) = 12.018 BETA ( 3 ) = .174 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6745	-.6047	-.7224	-.7094	-.5715	-.3830
.757	-.6761	-.6240	-.7536	-.7172	-.0000	-.3686
.805	-.6736	-.6739	-.7944	-.7032	-.5422	-.3551
.887	-.6734	-.7326	-.8005	-.6954	-.5282	-.3471
.968	-.6711	-.8028	-.7982	-.6745	-.5024	-.3342



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TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.917 BETA ( 4 ) = 4.245 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363  
(NE9K4S)

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 04 .3170 .4120 .5070 .6020 .6970 .7920

X CV

.709 -.5959 -.6234 -.7714 -.6769 -.5345 -.3261  
.707 -.5917 -.6199 -.7640 -.6704 -.5280 -.3222  
.695 -.5810 -.6092 -.7510 -.6576 -.5156 -.3189  
.687 -.5673 -.6932 -.7384 -.6450 -.5030 -.3116  
.689 -.5735 -.6933 -.7387 -.6416 -.5021 -.3192

ALPHA ( 5 ) = 11.904 BETA ( 5 ) = 8.309 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 04 .3170 .4120 .5070 .6020 .6970 .7920

X CV

.709 -.5957 -.6279 -.7813 -.6763 -.5341 -.3247  
.707 -.5853 -.6285 -.7848 -.6753 -.5320 -.3226  
.695 -.5728 -.6235 -.7852 -.6653 -.5193 -.3182  
.687 -.5523 -.6227 -.7702 -.6503 -.5095 -.3132  
.689 -.5291 -.6235 -.7623 -.6373 -.4897 -.3028

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TABULATED PRESSURE DATA - 0A11.0 ANES 11-073-1

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AXES 11-073-1 (XEBN7) : 13 AUG 75

REFERENCE DATA

REF = 2020.0000 SQ.FT. XMRP = 1076.68  
LREF = 474.8000 IN. YMRP = .00  
BREF = 936.2500 IN. ZMRP = 375.00  
SCALE = .0300

ALPHA ( 1 ) = -4.021 BETA ( 1 ) = -3

Q = 1.3993

P = 600.40

RN/L = 2.9180

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 320

X/CV

.709 -.6155 -.6147 -.6199 -.6263 .185 -.5996  
.757 -.6123 -.6142 -.6239 -.6253 .0000 -.6003  
.805 -.6121 -.6158 -.6256 -.6276 -.6150 -.5977  
.897 -.6121 -.6195 -.6282 -.6249 -.6100 -.5910  
.969 -.6135 -.6243 -.6272 -.6223 -.6050 -.5825

ALPHA ( 1 ) = -4.015 BETA ( 2 ) = .189 MACH = 1.3993

RN/L = 2.9180

P

Q = 600.40

Q = 1.3993

MACH

BETA ( 2 )

ALPHA ( 1 )

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6093 -.6239 -.6090 -.6118 -.6081 -.5939  
.757 -.6027 -.6062 -.6121 -.6107 .0000 -.5960  
.805 -.6036 -.6078 -.6128 -.6114 -.6078 -.5941  
.897 -.6055 -.6088 -.6121 -.6114 -.6064 -.5875  
.968 -.6072 -.6117 -.6119 -.6090 -.6017 -.5731

ALPHA ( 1 ) = -4.023 BETA ( 3 ) = 4.275 MACH = 1.3993

RN/L = 2.9180

P

Q = 600.40

Q = 1.3993

MACH

BETA ( 3 )

ALPHA ( 1 )

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5949 -.5920 -.5949 -.5980 -.5954 -.5971  
.757 -.5920 -.5920 -.5968 -.5980 .0000 -.5888  
.805 -.5918 -.5935 -.5975 -.5980 -.5955 -.5886  
.897 -.5927 -.5944 -.5973 -.5980 -.5944 -.5893  
.968 -.5933 -.6004 -.5980 -.5970 -.5895 -.5787

PARAMETRIC DATA

RUDDER = -10.000 SPDRBK = 65.000  
SOFLAP = 16.300 L-ELVN = 4.000  
R-ELVN = 4.000 MACH = 1.400

P = 438.06

RN/L

Q = 2.9180

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK47)

ALPHA ( 2 ) = -.011 BETA ( 1 ) = -3.871 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9188

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6160	-.6131	-.6182	-.6260	-.6189	-.6028
.757	-.6122	-.6134	-.6234	-.6255	.0000	-.6043
.805	-.6122	-.6153	-.6243	-.6260	-.6188	-.6017
.897	-.6131	-.6180	-.6262	-.6238	-.6139	-.5946
.958	-.6141	-.6216	-.6276	-.6224	-.6080	-.5840

ALPHA ( 2 ) = -.002 BETA ( 2 ) = .186 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9188

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6162	-.6113	-.6140	-.6168	-.6149	-.6038
.757	-.6099	-.5127	-.6173	-.6164	.0000	-.6055
.805	-.6108	-.6136	-.6180	-.6164	-.6142	-.6041
.897	-.6125	-.6142	-.6171	-.6164	-.6131	-.5979
.958	-.6136	-.6182	-.6171	-.6154	-.6088	-.5851

ALPHA ( 2 ) = -.007 BETA ( 3 ) = 4.251 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9188

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6036	-.6055	-.6084	-.6105	-.6082	-.6016
.757	-.6063	-.6063	-.6108	-.6108	.0000	-.6030
.805	-.6055	-.6063	-.6112	-.6110	-.6089	-.6025
.897	-.6055	-.6118	-.6109	-.6098	-.6082	-.6024
.958	-.6053	-.6149	-.6112	-.6101	-.6032	-.5932

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -3.876 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6154	-.6129	-.6184	-.6241	-.6179	-.6012
.757	-.6114	-.6140	-.6217	-.6229	.0000	-.6026
.805	-.6119	-.6166	-.6241	-.6236	-.6163	-.6009
.897	-.6133	-.6212	-.6262	-.6236	-.6130	-.5961
.958	-.6147	-.6255	-.6269	-.6219	-.6087	-.5841

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.927 BETA ( 2 ) = .191 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202  
 (XEBK47)

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6089 -.6044 -.6091 -.6105 -.6069 -.5968  
 .757 -.6039 -.6033 -.6114 -.6098 -.6000 -.5987  
 .805 -.6037 -.6055 -.6121 -.6105 -.6067 -.5973  
 .887 -.6053 -.6096 -.6112 -.6100 -.6053 -.5923  
 .958 -.6053 -.6122 -.6107 -.6079 -.6003 -.5810

ALPHA ( 3 ) = 3.930 BETA ( 3 ) = 4.244 MACH = 1.3953 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6111 -.6080 -.6128 -.6151 -.6111 -.6017  
 .757 -.6076 -.6097 -.6158 -.6146 -.6000 -.6038  
 .805 -.6083 -.6106 -.6165 -.6156 -.6123 -.6028  
 .887 -.6094 -.6159 -.6158 -.6144 -.6111 -.6005  
 .958 -.6104 -.6192 -.6156 -.6142 -.6066 -.5891

ALPHA ( 4 ) = 7.863 BETA ( 1 ) = -3.871 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6118 -.6080 -.6109 -.6140 -.6100 -.6017  
 .757 -.6080 -.6089 -.6159 -.6135 -.6000 -.6032  
 .805 -.6073 -.6101 -.6168 -.6133 -.6100 -.6024  
 .887 -.6085 -.6152 -.6164 -.6121 -.6083 -.5986  
 .958 -.6101 -.6168 -.6143 -.6107 -.6036 -.5868

ALPHA ( 4 ) = 7.994 BETA ( 2 ) = .174 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

SECTION ( 1 ) RIGHT HAND INSIDE  
 DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6041 -.5984 -.6025 -.6039 -.6008 -.5888  
 .757 -.5987 -.5999 -.6046 -.6043 -.6000 -.5897  
 .805 -.5999 -.6013 -.6052 -.6039 -.6003 -.5883  
 .887 -.6002 -.6044 -.6058 -.6041 -.5984 -.5857  
 .958 -.6020 -.6065 -.6039 -.6017 -.5944 -.5753

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ALPHA ( 4 ) = 7.934 BETA ( 3 ) = 4.239 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228  
 (XEBK47)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6151 -.6118 -.6187 -.6242 -.6197 -.6027  
 .757 -.6106 -.6139 -.6225 -.6234 -.6000 -.6048  
 .805 -.6106 -.6156 -.6234 -.6239 -.6180 -.6027  
 .887 -.6137 -.6219 -.6251 -.6232 -.6161 -.5992  
 .958 -.6146 -.6254 -.6251 -.6218 -.6123 -.5911

ALPHA ( 5 ) = 11.867 BETA ( 1 ) = -3.858 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6039 -.5985 -.6017 -.6036 -.6010 -.5916  
 .757 -.5989 -.5975 -.6031 -.6045 -.6000 -.5918  
 .805 -.5959 -.5989 -.6048 -.6045 -.6008 -.5913  
 .887 -.5999 -.6056 -.6038 -.6036 -.6000 -.5928  
 .958 -.5996 -.6077 -.6036 -.6008 -.5930 -.5848

ALPHA ( 5 ) = 11.873 BETA ( 2 ) = .176 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6050 -.6008 -.6090 -.6118 -.6075 -.5936  
 .757 -.6015 -.6043 -.6111 -.6123 -.6000 -.5950  
 .805 -.6010 -.6060 -.6120 -.6130 -.6064 -.5948  
 .887 -.6039 -.6102 -.6123 -.6118 -.6045 -.5885  
 .958 -.6050 -.6119 -.6130 -.6099 -.6009 -.5788

ALPHA ( 5 ) = 11.858 BETA ( 3 ) = 4.257 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6117 -.6084 -.6177 -.6250 -.6177 -.5965  
 .757 -.6103 -.6058 -.6222 -.6241 -.6000 -.5903  
 .805 -.6094 -.6143 -.6248 -.6255 -.6156 -.5936  
 .887 -.6108 -.6225 -.6272 -.6224 -.6120 -.5849  
 .958 -.6150 -.6255 -.6250 -.6205 -.6102 -.5759

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK47)

ALPHA ( 6 ) = 15.839 BETA ( 1 ) = -3.834 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6121	-.6093	-.6106	-.6132	-.6108	-.6040
.757	-.6090	-.6081	-.6137	-.6130	.0000	-.6047
.805	-.6085	-.6083	-.6137	-.6134	-.6113	-.6042
.857	-.6092	-.6142	-.6144	-.6127	-.6113	-.6029
.909	-.6089	-.6154	-.6132	-.6104	-.6059	-.5989

ALPHA ( 6 ) = 15.851 BETA ( 2 ) = .174 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6051	-.6027	-.6091	-.6146	-.6091	-.5938
.757	-.6034	-.6030	-.6124	-.6134	.0000	-.5935
.805	-.6034	-.6059	-.6149	-.6141	-.6079	-.5919
.857	-.6053	-.6133	-.6167	-.6134	-.6053	-.5899
.909	-.6056	-.6154	-.6157	-.6120	-.5999	-.5825

ALPHA ( 6 ) = 15.843 BETA ( 3 ) = 4.293 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6216	-.6193	-.6270	-.6343	-.6256	-.5999
.757	-.6176	-.6216	-.6315	-.6336	.0000	-.5998
.805	-.6174	-.6239	-.6322	-.6343	-.6221	-.5996
.857	-.6197	-.6283	-.6341	-.6313	-.6199	-.5947
.909	-.6209	-.6328	-.6346	-.6254	-.6171	-.5843

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK48) ( 13 AUG 75 )

## REFERENCE DATA

SIZE = 2692.0000 SQ.FT. XMRP = 1076.6900 IN. XO  
 LUG = 474.0000 IN. YMRP = .0000 IN. YO  
 DIA = 236.1680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

## PARAMETRIC DATA

RUDDER = -10.000 SPD83K = 85.000  
 BDFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = 1.250

ALPHA ( 1 ) = -4.024 BETA ( 1 ) = -3.849 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7235 -.7224 -.7352 -.7413 -.7326 -.6905  
 .757 -.7186 -.7276 -.7378 -.7434 -.7000 -.6922  
 .805 -.7181 -.7297 -.7420 -.7425 -.7263 -.6877  
 .857 -.7231 -.7407 -.7422 -.7404 -.7203 -.6806  
 .909 -.7306 -.7418 -.7394 -.7392 -.7196 -.6655

ALPHA ( 2 ) = -4.006 BETA ( 2 ) = .189 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7213 -.7138 -.7220 -.7250 -.7135 -.7026  
 .757 -.7156 -.7208 -.7253 -.7224 -.7000 -.7045  
 .805 -.7177 -.7227 -.7260 -.7248 -.7177 -.7064  
 .857 -.7201 -.7251 -.7257 -.7243 -.7146 -.7024  
 .909 -.7222 -.7248 -.7248 -.7203 -.7064 -.6839

ALPHA ( 3 ) = -4.015 BETA ( 3 ) = 4.273 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6955 -.6946 -.7040 -.7089 -.7023 -.6796  
 .757 -.6913 -.6967 -.7075 -.7096 -.7000 -.6794  
 .805 -.6926 -.6998 -.7094 -.7089 -.7002 -.6784  
 .857 -.6934 -.7079 -.7101 -.7104 -.6983 -.6755  
 .909 -.6938 -.7094 -.7113 -.7068 -.6896 -.6678

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .012 BETA ( 1 ) = -3.869 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

(XEBK48)

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7207 -.7181 -.7314 -.7366 -.7274 -.6898  
.757 -.7159 -.7192 -.7338 -.7380 .0000 -.6867  
.805 -.7140 -.7255 -.7378 -.7390 -.7201 -.6851  
.857 -.7168 -.7370 -.7409 -.7376 -.7163 -.6777  
.909 -.7247 -.7423 -.7390 -.7331 -.7120 -.6635

ALPHA ( 2 ) = .020 BETA ( 2 ) = .189 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7090 -.7059 -.7143 -.7176 -.7091 -.6862  
.757 -.7043 -.7114 -.7181 -.7174 .0000 -.6904  
.805 -.7033 -.7118 -.7207 -.7212 -.7079 -.6857  
.857 -.7095 -.7220 -.7197 -.7188 -.7060 -.6830  
.909 -.7123 -.7227 -.7178 -.7164 -.6949 -.6652

ALPHA ( 2 ) = .014 BETA ( 3 ) = 4.249 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6997 -.6978 -.7062 -.7095 -.7069 -.6883  
.757 -.6957 -.7013 -.7095 -.7112 .0000 -.6897  
.805 -.6959 -.7025 -.7107 -.7131 -.7079 -.6873  
.857 -.7011 -.7121 -.7131 -.7136 -.7060 -.6823  
.909 -.7035 -.7131 -.7129 -.7088 -.6959 -.6714

ALPHA ( 3 ) = 3.061 BETA ( 1 ) = -3.873 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7029 -.7013 -.7102 -.7197 -.7091 -.6779  
.757 -.6971 -.7053 -.7145 -.7194 .0000 -.6905  
.805 -.7006 -.7094 -.7194 -.7206 -.7091 -.6753  
.857 -.7049 -.7152 -.7232 -.7204 -.7039 -.6682  
.909 -.7092 -.7207 -.7242 -.7138 -.6925 -.6431



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.950 BETA ( 2 ) = .185 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262  
 (XEBK48)

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6976 -.6943 -.6947 -.6954 -.6893 -.6664  
 .757 -.6952 -.6920 -.6923 -.6958 .0000 -.6725  
 .805 -.6949 -.6933 -.6963 -.7004 -.6876 -.6718  
 .857 -.6922 -.6912 -.6930 -.6970 -.6817 -.6668  
 .908 -.6937 -.6951 -.6970 -.6992 -.6715 -.6491

ALPHA ( 3 ) = 3.954 BETA ( 3 ) = 4.240 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7031 -.6999 -.7153 -.7196 -.7101 -.6783  
 .757 -.6979 -.7019 -.7199 -.7200 .0000 -.6778  
 .805 -.6975 -.7111 -.7252 -.7215 -.7261 -.6806  
 .857 -.7031 -.7193 -.7278 -.7212 -.7002 -.6733  
 .908 -.7022 -.7264 -.7276 -.7163 -.6929 -.6582

ALPHA ( 4 ) = 7.295 BETA ( 1 ) = -3.859 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6948 -.6983 -.6575 -.6604 -.6483 -.6271  
 .757 -.6960 -.6513 -.6563 -.6655 .0000 -.6323  
 .805 -.6937 -.6926 -.6544 -.6660 -.6490 -.6323  
 .857 -.6926 -.6508 -.6579 -.6648 -.6448 -.6199  
 .908 -.6949 -.6563 -.6658 -.6580 -.6351 -.6029

ALPHA ( 4 ) = 8.000 BETA ( 2 ) = .178 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6595 -.6612 -.6561 -.6685 -.6616 -.6458  
 .757 -.6522 -.6607 -.6685 -.6694 .0000 -.6455  
 .805 -.6534 -.6545 -.6597 -.6723 -.6602 -.6465  
 .857 -.6507 -.6571 -.6579 -.6706 -.6538 -.6430  
 .908 -.6542 -.6539 -.6525 -.6526 -.6437 -.6232

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK48)  
 ALPHA (1) = 8.003 BETA (3) = 4.235 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6985 -.6883 -.6949 -.7089 -.6952 -.6640  
 .757 -.6849 -.6916 -.6968 -.7103 .0000 -.6668  
 .805 -.6921 -.6954 -.7101 -.7117 -.6883 -.6580  
 .857 -.6971 -.7075 -.7157 -.7082 -.6838 -.6602  
 .909 -.6945 -.7105 -.7131 -.7049 -.6775 -.6439

ALPHA (5) = 11.933 BETA (1) = -3.854 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6185 -.6237 -.6338 -.6357 -.6272 -.6055  
 .757 -.6171 -.6187 -.6327 -.6386 .0000 -.6036  
 .805 -.6171 -.6232 -.6325 -.6374 -.6284 -.6048  
 .857 -.6164 -.6311 -.6407 -.6391 -.6206 -.5996  
 .909 -.6218 -.6366 -.6452 -.6334 -.6145 -.5852

ALPHA (5) = 11.941 BETA (2) = .176 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6168 -.6182 -.6359 -.6373 -.6262 -.6014  
 .757 -.6109 -.6156 -.6363 -.6397 .0000 -.6080  
 .805 -.6114 -.6241 -.6375 -.6392 -.6229 -.6118  
 .857 -.6189 -.6341 -.6404 -.6406 -.6200 -.6058  
 .909 -.6234 -.6383 -.6453 -.6278 -.6104 -.5918

ALPHA (5) = 11.935 BETA (3) = 4.253 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6542 -.6547 -.6644 -.6942 -.6660 -.6310  
 .757 -.6498 -.6528 -.6715 -.6840 .0000 -.6346  
 .805 -.6493 -.6523 -.6771 -.6838 -.6611 -.6362  
 .857 -.6540 -.6763 -.6864 -.6821 -.6547 -.6333  
 .909 -.6634 -.6932 -.6980 -.6778 -.6495 -.6149

AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

### PARAMETRIC DATA

	59 FT.	XREP	=	1076.0000 IN.	XO
b1	59 FT.	YREP	=	-	YO
b2	59 FT.	ZREP	=	355.0000 IN.	ZO
b3	59 FT.				
b4	59 FT.				
b5	59 FT.				

PARAMETER	VALUE	UNIT	REMARKS
BETA (1)	-0.322		
MACH	1.1001		
P	600.26		
FN/L	708.59		
FN/L	3.1930		

SECTION 1 UPRIGHT HANG INSIDE

1.33	.3179	.4129	.5070	.6020	.6970	.7920
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6

7035	-	7437	-	7782	-	7741	-	7969
7014	-	0000	-	7784	-	7803	-	8113
7096	-	7394	-	7784	-	7819	-	8333
7051	-	7375	-	7784	-	7921	-	8333
6952	-	7068	-	7808	-	7893	-	8333

$\Delta E_{\text{eff}}(1) = +.022$	$\Delta E_{\text{eff}}(2) = .189$	$\text{FACH} = 1.1001$	$Q = 600.26$	$P = 708.59$	$\text{RN/L} = 3.1930$
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SECTION 101.01, HRS. § 101-101

DEPENDENT VARIABLE CP

2.31	.3176	.4120	.5070	.5020	.5970	.7920
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23

Year	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

ALPHA ( ) =	-4.023	BETA ( 3 ) =	4.271	MACH	=	1.1001	Q	=	600.26	P	=	708.59	RM/L	=	3.1930
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SECTION 1. AIRPORT HAS INSIDE

1987	3.70	4.25	.5020	.6970	.7320
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• •  
(1)  
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1983	7337	7229	7123	7017	6911	6805
1984	7355	7335	7220	7110	7004	6898
1985	7338	7318	7212	7102	6996	6890
1986	7235	7122	7012	6902	6796	6690
1987	7086	6982	6876	6770	6664	6558
1988	6971	6867	6761	6655	6549	6443
1989	6783	6679	6573	6467	6361	6255
1990	6582	6478	6372	6266	6160	6054
1991	6386	6282	6176	6070	5964	5858
1992	6190	6086	5980	5874	5768	5662
1993	6000	5896	5790	5684	5578	5472
1994	5806	5702	5596	5490	5384	5278
1995	5612	5508	5402	5296	5190	5084
1996	5418	5314	5208	5102	4996	4890
1997	5224	5120	5014	4908	4802	4696
1998	5030	4926	4820	4714	4608	4502
1999	4836	4732	4626	4520	4414	4308
2000	4642	4538	4432	4326	4220	4114
2001	4448	4344	4238	4132	4026	3920
2002	4254	4150	4044	3938	3832	3726
2003	4060	3956	3850	3744	3638	3532
2004	3866	3762	3656	3550	3444	3338
2005	3672	3568	3462	3356	3250	3144
2006	3478	3374	3268	3162	3056	2950
2007	3284	3180	3074	2968	2862	2756
2008	3090	2986	2880	2774	2668	2562
2009	2896	2792	2686	2580	2474	2368
2010	2702	2598	2492	2386	2280	2174
2011	2508	2404	2298	2192	2086	1980
2012	2314	2210	2104	1998	1892	1786
2013	2120	2016	1910	1804	1698	1592
2014	1926	1822	1716	1610	1504	1398
2015	1732	1628	1522	1416	1310	1204
2016	1538	1434	1328	1222	1116	1010
2017	1344	1240	1134	1028	922	816
2018	1150	1046	940	834	728	622
2019	956	852	746	640	534	428
2020	762	658	552	446	340	234
2021	568	464	358	252	146	40
2022	374	270	164	58	-48	-154
2023	180	76	-20	-116	-222	-328
2024	-24	80	-124	-230	-336	-442
2025	-120	164	-260	-366	-472	-578
2026	-296	340	-436	-542	-648	-754
2027	-472	516	-612	-718	-824	-930
2028	-648	692	-788	-894	-1000	-1106
2029	-824	868	-964	-1070	-1176	-1282
2030	-1000	1044	-1140	-1246	-1352	-1458
2031	-1176	1220	-1316	-1422	-1528	-1634
2032	-1352	1396	-1492	-1598	-1704	-1810
2033	-1528	1572	-1668	-1774	-1880	-1986
2034	-1704	1748	-1844	-1950	-2056	-2162
2035	-1880	1924	-2020	-2126	-2232	-2338
2036	-2056	2100	-2196	-2302	-2408	-2514
2						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK-9)

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

ALPHA 2 = .025 BETA ( 1 ) = -3.865 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION 1 ( RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7260	-.7286	-.7417	-.7544	-.7327	-.6795
.757	-.7234	-.7356	-.7601	-.7539	.0000	-.6857
.805	-.7235	-.7359	-.7665	-.7641	-.7270	-.6857
.857	-.7222	-.7360	-.7705	-.7575	-.7133	-.6844
.909	-.7351	-.7599	-.7779	-.7549	-.7024	-.6747

ALPHA ( 2 ) = .030 BETA ( 2 ) = .195 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION 1 ( RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6781	-.6891	-.7039	-.7100	-.6918	-.6632
.757	-.6817	-.6954	-.7128	-.7192	.0000	-.6767
.805	-.6829	-.6950	-.7156	-.7145	-.6953	-.6717
.857	-.6822	-.7150	-.7195	-.7111	-.6882	-.6727
.909	-.6914	-.7270	-.7227	-.7362	-.6739	-.6592

ALPHA ( 2 ) = .025 BETA ( 3 ) = 4.247 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION 1 ( RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6673	-.6695	-.6740	-.6966	-.6941	-.6496
.757	-.6636	-.6714	-.6972	-.6994	.0000	-.6570
.805	-.6601	-.6716	-.6954	-.7051	-.6924	-.6570
.857	-.6600	-.6692	-.7045	-.6990	-.6601	-.6538
.909	-.6577	-.6693	-.7039	-.7008	-.6716	-.6340

ALPHA ( 3 ) = 3.925 BETA ( 1 ) = -3.867 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

SECTION 1 ( RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6391	-.6350	-.6534	-.6665	-.6478	-.6019
.757	-.6279	-.6359	-.6722	-.6785	.0000	-.6055
.805	-.6273	-.6432	-.6707	-.6783	-.6471	-.6052
.857	-.6314	-.6580	-.6769	-.6712	-.6369	-.6026
.909	-.6456	-.6778	-.6959	-.6665	-.6279	-.5939

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

1X(249)

ALPHA ( 3 ) = 3.995 BETA ( 2 ) = .185 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

SECTION 1 UPRIGHT H&O INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.018 -.6150 -.6242 -.6384 -.6421 -.6355 -.6029  
 .057 -.6141 -.6256 -.6365 -.6491 -.6000 -.6060  
 .095 -.6195 -.6301 -.6459 -.6615 -.6405 -.6098  
 .133 -.6124 -.6281 -.6571 -.6569 -.6315 -.6005  
 .171 -.6240 -.6467 -.6508 -.6571 -.6225 -.5951

ALPHA ( 3 ) = 3.999 BETA ( 3 ) = 4.239 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

SECTION 1 UPRIGHT H&O INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.018 -.6589 -.6709 -.6935 -.7110 -.6980 -.6545  
 .057 -.6512 -.6727 -.6991 -.7135 -.6900 -.6582  
 .095 -.6550 -.6770 -.7088 -.7147 -.6959 -.6630  
 .133 -.6709 -.6939 -.7159 -.7190 -.6923 -.6598  
 .171 -.6574 -.7014 -.7211 -.7138 -.6772 -.6270

ALPHA ( 4 ) = 7.942 BETA ( 1 ) = -3.865 MACH = 1.1005 Q = 500.80 P = 708.61 RN/L = 3.1953

SECTION 1 UPRIGHT H&O INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.018 -.6222 -.6379 -.6507 -.6718 -.6576 -.6073  
 .057 -.6294 -.6405 -.6528 -.6758 -.6600 -.6137  
 .095 -.6301 -.6447 -.6559 -.6860 -.6586 -.6139  
 .133 -.6343 -.6509 -.6629 -.6905 -.6543 -.6024  
 .171 -.6393 -.6573 -.6699 -.6972 -.6577 -.5807

ALPHA ( 4 ) = 8.042 BETA ( 2 ) = .178 MACH = 1.1005 Q = 500.80 P = 708.61 RN/L = 3.1953

SECTION 1 UPRIGHT H&O INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/OV

.018 -.6111 -.6223 -.6315 -.6514 -.6324 -.5954  
 .057 -.6124 -.6229 -.6365 -.6516 -.6200 -.5975  
 .095 -.6133 -.6243 -.6419 -.6543 -.6353 -.5971  
 .133 -.6007 -.6420 -.6582 -.6515 -.6231 -.5934  
 .171 -.6119 -.6473 -.6597 -.6571 -.6256 -.5809

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INSULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

WIDE 6190

AXES 11-073(0A148) -140A/B/C/R ORB SPLED BRAKE

(1E849)

0A148 (1) = 9.044 BETA (3) = 4.222 MACH = 1.1006 Q = 599.89 P = 708.61 RN/L = 3.1930

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

Y/CV

1705 -1.6714 -1.6569 -1.7188 -1.7134 -1.6609  
1707 -1.6757 -1.6672 -1.7072 -1.7023 -1.6580  
1709 -1.6799 -1.6683 -1.7097 -1.7112 -1.6673  
1711 -1.6755 -1.6603 -1.7030 -1.7025 -1.6571  
1713 -1.6600 -1.6490 -1.6929 -1.6935 -1.6300

ALPHA 51 = 11.980 BETA (1) = -3.845 MACH = 1.098 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

Y/CV

1705 -1.6703 -1.6519 -1.6769 -1.6740 -1.6277  
1707 -1.6733 -1.6523 -1.6802 -1.6764 -1.6364  
1709 -1.6767 -1.6515 -1.6819 -1.6769 -1.6326  
1711 -1.6711 -1.6406 -1.6758 -1.6711 -1.6316  
1713 -1.6555 -1.6413 -1.6612 -1.6612 -1.6052

ALPHA 1 51 = 11.986 BETA (2) = .181 MACH = 1.0930 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

Y/CV

1705 -1.6670 -1.6439 -1.6628 -1.7014 -1.6924 -1.6407  
1707 -1.6694 -1.6447 -1.6644 -1.7094 -1.6967 -1.6457  
1709 -1.6712 -1.6431 -1.6637 -1.7023 -1.6913 -1.6398  
1711 -1.6653 -1.6390 -1.6611 -1.7122 -1.6804 -1.6470  
1713 -1.6503 -1.6243 -1.6453 -1.7022 -1.6557 -1.6267

ALPHA 3 51 = 11.982 BETA (3) = 4.250 MACH = 1.0980 Q = 599.65 P = 710.48 RN/L = 3.1930

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

Y/CV

1705 -1.6629 -1.7000 -1.7075 -1.7364 -1.7279 -1.6740  
1707 -1.6634 -1.6935 -1.7059 -1.7407 -1.7200 -1.6821  
1709 -1.6641 -1.7017 -1.7036 -1.7454 -1.7277 -1.6745  
1711 -1.6643 -1.7075 -1.7045 -1.7423 -1.7161 -1.6715  
1713 -1.6549 -1.6943 -1.6973 -1.7333 -1.7122 -1.6453

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK50) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 5590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 536.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = 85.000  
 BDCLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = .900

ALPHA ( 1 ) = -4.039 BETA ( 1 ) = -3.850 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.4385 -.4123 -.4336 -.4501 -.4279 -.3723  
 .757 -.4200 -.4192 -.4470 -.4458 .0000 -.3884  
 .805 -.3991 -.4293 -.4565 -.4553 -.4158 -.3853  
 .857 -.4057 -.4496 -.4522 -.4520 -.4182 -.3768  
 .909 -.4241 -.4654 -.4695 -.4574 -.4208 -.3721

ALPHA ( 2 ) = -4.026 BETA ( 2 ) = .188 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.3299 -.4202 -.4175 -.4411 -.4326 -.3934  
 .757 -.4049 -.4174 -.4371 -.4475 .0000 -.3913  
 .805 -.3330 -.4212 -.4458 -.4602 -.4210 -.3858  
 .857 -.4068 -.4418 -.4553 -.4617 -.4259 -.3828  
 .909 -.4219 -.4540 -.4600 -.4553 -.4298 -.3722

ALPHA ( 3 ) = -4.037 BETA ( 3 ) = 4.267 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.4126 -.4199 -.4421 -.4523 -.4433 -.3977  
 .757 -.4112 -.4236 -.4544 -.4508 .0000 -.4074  
 .805 -.4112 -.4341 -.4634 -.4651 -.4377 -.4043  
 .857 -.4223 -.4474 -.4620 -.4608 -.4296 -.4049  
 .909 -.4272 -.4637 -.4717 -.4584 -.4313 -.3895

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .032 BETA ( 1 ) = -3.867 MACH = .89853 0 = 599.04 P = 1060.0 RN/L = 3.5758  
(XEBK50)

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4101	-.4247	-.4496	-.4671	-.4452	-.4073
.757	-.4172	-.4304	-.4553	-.4678	.0000	-.4078
.805	-.4103	-.4427	-.4657	-.4723	-.4454	-.3957
.857	-.4143	-.4582	-.4801	-.4610	-.4409	-.3879
.909	-.4448	-.4678	-.4726	-.4560	-.4366	-.3875

ALPHA ( 2 ) = .035 BETA ( 2 ) = .184 MACH = .89853 0 = 599.04 P = 1060.0 RN/L = 3.5758

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4109	-.4248	-.4454	-.4582	-.4513	-.4027
.757	-.4203	-.4263	-.4518	-.4627	.0000	-.4034
.805	-.4020	-.4201	-.4583	-.4655	-.4388	-.3921
.857	-.4182	-.4562	-.4608	-.4707	-.4504	-.4051
.909	-.4314	-.4628	-.4747	-.4669	-.4530	-.3919

ALPHA ( 2 ) = .028 BETA ( 3 ) = 4.248 MACH = .89853 0 = 599.04 P = 1060.0 RN/L = 3.5758

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4249	-.4431	-.4668	-.4892	-.4729	-.4209
.757	-.4226	-.4412	-.4703	-.4859	.0000	-.4200
.805	-.4301	-.4530	-.4933	-.4925	-.4661	-.4235
.857	-.4410	-.4639	-.4969	-.4956	-.4681	-.4240
.909	-.4425	-.4816	-.5093	-.4873	-.4597	-.4100

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -3.868 MACH = .90073 0 = 600.62 P = 1057.6 RN/L = 3.5790

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4290	-.4508	-.4648	-.4828	-.4729	-.4194
.757	-.4383	-.4527	-.4830	-.4894	.0000	-.4220
.805	-.4429	-.4616	-.4944	-.4941	-.4700	-.4145
.857	-.4456	-.4735	-.4986	-.4996	-.4608	-.4124
.909	-.4469	-.4839	-.4957	-.4927	-.4589	-.3956



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.003 BETA ( 2 ) = .184 MACH = .90073 Q = 600.62 P = 1057.6 RN/L = 3.5790  
(XEBK50)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4241 -.4376 -.4637 -.4798 -.4751 -.4236  
.757 -.4211 -.4435 -.4696 -.4812 .0000 -.4269  
.805 -.4199 -.4550 -.4976 -.4876 -.4663 -.4299  
.867 -.4407 -.4683 -.4919 -.4885 -.4659 -.4175  
.968 -.4398 -.4863 -.4989 -.4928 -.4694 -.4075

ALPHA ( 3 ) = 4.005 BETA ( 3 ) = 4.239 MACH = .90073 Q = 600.62 P = 1057.6 RN/L = 3.5790

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4433 -.4704 -.5016 -.5251 -.5127 -.4496  
.757 -.4583 -.4709 -.5101 -.5286 .0000 -.4432  
.805 -.4538 -.4772 -.5165 -.5390 -.5002 -.4448  
.867 -.4585 -.5049 -.5284 -.5383 -.4962 -.4470  
.968 -.4659 -.5167 -.5489 -.5267 -.4997 -.4295

ALPHA ( 4 ) = 8.040 BETA ( 1 ) = -3.870 MACH = .89937 Q = 599.61 P = 1059.0 RN/L = 3.5771

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4690 -.4844 -.5158 -.5444 -.5134 -.4581  
.757 -.4632 -.4643 -.5272 -.5430 .0000 -.4616  
.805 -.4763 -.5021 -.5440 -.5534 -.5215 -.4507  
.867 -.4770 -.5342 -.5537 -.5508 -.5082 -.4410  
.969 -.4976 -.5602 -.5676 -.5613 -.5239 -.4311

ALPHA ( 4 ) = 8.046 BETA ( 2 ) = .178 MACH = .89937 Q = 599.61 P = 1059.0 RN/L = 3.5771

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.4502 -.4675 -.4981 -.5217 -.5080 -.4471  
.757 -.4566 -.4612 -.5144 -.5394 .0000 -.4523  
.805 -.4679 -.4979 -.5274 -.5403 -.5099 -.4594  
.867 -.4716 -.5145 -.5370 -.5399 -.5047 -.4392  
.969 -.4718 -.5269 -.5481 -.5333 -.5054 -.4277

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK50)

ALPHA ( 4 ) = 8.043 BETA ( 3 ) = 4.236 MACH = .89937 Q = 599.61 P = 1059.0 RN/L = 3.5771

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

1.00	-1.987	-1.5283	-1.5433	-1.5990	-1.5584	-1.4951
1.25	-1.5132	-1.5363	-1.5695	-1.5988	-1.6000	-1.4908
1.50	-1.6028	-1.5500	-1.5860	-1.5914	-1.5617	-1.4915
1.75	-1.6130	-1.5663	-1.6087	-1.5945	-1.5605	-1.4671
2.00	-1.5191	-1.5753	-1.6153	-1.5822	-1.5598	-1.4527

ALPHA ( 5 ) = 11.980 BETA ( 1 ) = -3.854 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

1.00	-1.5090	-1.5293	-1.5449	-1.5979	-1.5535	-1.4874
1.25	-1.5017	-1.5156	-1.5619	-1.5693	-1.6000	-1.4768
1.50	-1.5021	-1.5274	-1.5810	-1.5854	-1.5477	-1.4768
1.75	-1.5158	-1.5510	-1.5914	-1.5855	-1.5456	-1.4710
2.00	-1.5170	-1.5840	-1.6029	-1.5849	-1.5425	-1.4476

ALPHA ( 5 ) = 11.999 BETA ( 2 ) = .180 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

1.00	-1.5026	-1.5249	-1.5645	-1.5945	-1.5607	-1.4832
1.25	-1.5100	-1.5266	-1.5804	-1.5852	-1.6000	-1.4808
1.50	-1.5164	-1.5481	-1.6039	-1.5988	-1.5586	-1.4825
1.75	-1.5140	-1.5759	-1.6118	-1.5955	-1.5404	-1.4634
2.00	-1.5232	-1.6047	-1.6130	-1.5933	-1.5451	-1.4565

ALPHA ( 5 ) = 11.979 BETA ( 3 ) = 4.260 MACH = .89910 Q = 599.28 P = 1059.0 RN/L = 3.5742

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

1.00	-1.5026	-1.5221	-1.5699	-1.5414	-1.6110	-1.5244
1.25	-1.5035	-1.5260	-1.6237	-1.6518	-1.6000	-1.5078
1.50	-1.5098	-1.5439	-1.6438	-1.6471	-1.5981	-1.5052
1.75	-1.5121	-1.5657	-1.6634	-1.6467	-1.5853	-1.4865
2.00	-1.5176	-1.6055	-1.6726	-1.6328	-1.5946	-1.4723

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK51) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0600 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -3.976 BETA ( 1 ) = -7.854 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5154 -.5392 -.5814 -.5824 -.5282 -.4376  
 .757 -.5163 -.5412 -.5876 -.5860 .0000 -.4288  
 .805 -.5258 -.5566 -.6146 -.5946 -.5191 -.4381  
 .857 -.5282 -.5187 -.6280 -.5793 -.5052 -.4291  
 .908 -.5730 -.6369 -.6316 -.5604 -.4997 -.4235

ALPHA ( 2 ) = -3.959 BETA ( 2 ) = -3.844 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4685 -.4853 -.5361 -.5401 -.5062 -.4298  
 .757 -.4697 -.5112 -.5363 -.5337 .0000 -.4324  
 .805 -.4718 -.5249 -.5571 -.5497 -.4535 -.4226  
 .857 -.5050 -.5338 -.5722 -.5404 -.5007 -.4175  
 .908 -.5140 -.5662 -.5728 -.5466 -.4840 -.3985

ALPHA ( 3 ) = -3.955 BETA ( 3 ) = .188 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4790 -.5031 -.5446 -.5467 -.5196 -.4303  
 .757 -.4790 -.5167 -.5529 -.5600 .0000 -.4365  
 .805 -.4897 -.5268 -.5910 -.5788 -.5032 -.4306  
 .857 -.4982 -.5493 -.5926 -.5591 -.4920 -.4305  
 .908 -.5202 -.5772 -.6010 -.5531 -.4946 -.3986

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 85.000  
 BOFLAP = 15.000 L-ELVN = 4.000  
 R-ELVN = 5.000 MACH = .500

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK51)

ALPHA ( 1 ) = -3.963 BETA ( 4 ) = 4.269 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4924	-.5351	-.5767	-.5743	-.5199	-.4436
.757	-.5054	-.5363	-.5847	-.5795	.0000	-.4421
.805	-.5127	-.5544	-.5824	-.5931	-.5203	-.4329
.887	-.5268	-.5910	-.6130	-.5724	-.5032	-.4259
.963	-.5421	-.6120	-.6159	-.5541	-.4906	-.4009

ALPHA ( 2 ) = -3.980 BETA ( 5 ) = 8.339 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5448	-.5808	-.6312	-.6081	-.5352	-.4422
.757	-.5521	-.5915	-.6523	-.6074	.0000	-.4445
.805	-.5610	-.6139	-.6626	-.6269	-.5293	-.4512
.887	-.5712	-.6376	-.6834	-.5946	-.5079	-.4291
.963	-.5835	-.6617	-.6532	-.5863	-.4913	-.3870

ALPHA ( 2 ) = .060 BETA ( 1 ) = -7.891 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5679	-.5790	-.6427	-.6420	-.5902	-.4652
.757	-.5684	-.5968	-.6534	-.6439	.0000	-.4659
.805	-.5676	-.6124	-.6603	-.6693	-.5641	-.4652
.887	-.5970	-.6338	-.6941	-.6313	-.5474	-.4465
.963	-.6245	-.6759	-.7045	-.6301	-.5389	-.4430

ALPHA ( 2 ) = .070 BETA ( 2 ) = -3.863 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4921	-.5172	-.5588	-.5628	-.5370	-.4457
.757	-.5119	-.5377	-.5724	-.5740	.0000	-.4528
.805	-.5167	-.5396	-.5818	-.5807	-.5210	-.4440
.887	-.5152	-.5366	-.5845	-.5748	-.5151	-.4354
.963	-.5425	-.6168	-.5926	-.5712	-.5056	-.4154

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK51)

ALPHA ( 2 ) = .075 BETA ( 3 ) = .165 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.706 -.4921 -.5218 -.5718 -.5744 -.5369 -.4491  
 .757 -.5005 -.5345 -.5999 -.5835 .0000 -.4496  
 .805 -.5102 -.5581 -.6103 -.5951 -.5288 -.4491  
 .837 -.5239 -.5894 -.6156 -.5771 -.5209 -.4402  
 .958 -.5404 -.6164 -.6229 -.5744 -.5091 -.4121

ALPHA ( 2 ) = .070 BETA ( 4 ) = 4.248 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5326 -.5606 -.6094 -.6108 -.5517 -.4535  
 .757 -.5432 -.5696 -.6412 -.6184 .0000 -.4613  
 .805 -.5493 -.5974 -.6519 -.6334 -.5512 -.4490  
 .887 -.5566 -.6408 -.6614 -.6110 -.5320 -.4312  
 .958 -.5915 -.6641 -.6564 -.6039 -.5161 -.4023

ALPHA ( 2 ) = .066 BETA ( 5 ) = 8.300 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5819 -.6279 -.7021 -.6515 -.5778 -.4318  
 .757 -.6001 -.6392 -.7047 -.6688 .0000 -.4266  
 .805 -.5998 -.6616 -.7209 -.6719 -.5471 -.4178  
 .887 -.6253 -.7215 -.7266 -.6465 -.5274 -.4098  
 .958 -.6953 -.7337 -.7130 -.6251 -.5050 -.3733

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = -7.901 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8165

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6337 -.6618 -.7254 -.7378 -.6866 -.5205  
 .757 -.6495 -.6930 -.7590 -.7502 .0000 -.5112  
 .805 -.6562 -.7144 -.7824 -.7602 -.6373 -.5110  
 .887 -.6743 -.7656 -.7935 -.7245 -.6060 -.4758  
 .958 -.7031 -.8191 -.7931 -.7117 -.5932 -.4414

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK51)

ALPHA ( 3 ) = 4.027 BETA ( 2 ) = -3.864 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5137	-.5370	-.6017	-.6108	-.5537	-.4536
.757	-.5120	-.5606	-.6174	-.6067	.0000	-.4712
.806	-.5281	-.5952	-.6379	-.6189	-.5344	-.4650
.855	-.5507	-.6233	-.6467	-.6017	-.5382	-.4443
.904	-.5790	-.6376	-.6434	-.5970	-.5332	-.4172

ALPHA ( 3 ) = 4.029 BETA ( 3 ) = .191 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5377	-.5490	-.6056	-.6294	-.5730	-.4839
.757	-.5287	-.5757	-.6301	-.6230	.0000	-.4896
.806	-.5436	-.5938	-.6403	-.6406	-.5635	-.4813
.855	-.5621	-.6165	-.6536	-.6254	-.5505	-.4587
.904	-.5811	-.6361	-.6555	-.6078	-.5357	-.4434

ALPHA ( 3 ) = 4.031 BETA ( 4 ) = 4.239 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5458	-.5942	-.6441	-.6501	-.5764	-.4556
.757	-.5356	-.6141	-.6677	-.6632	.0000	-.4546
.806	-.5503	-.6400	-.6952	-.6800	-.5554	-.4380
.855	-.5719	-.6792	-.7055	-.6406	-.5417	-.4107
.904	-.5943	-.7041	-.7024	-.6234	-.5229	-.3917

ALPHA ( 3 ) = 4.035 BETA ( 5 ) = 8.279 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6271	-.6456	-.7592	-.7154	-.5954	-.4165
.757	-.6593	-.7071	-.7805	-.7273	.0000	-.4146
.806	-.6904	-.7516	-.7974	-.7275	-.5642	-.3965
.855	-.7191	-.7831	-.8041	-.6993	-.5409	-.3599
.904	-.7464	-.8228	-.7754	-.5636	-.4981	-.3229

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.061 BETA ( 1 ) = -7.896 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368  
 (XEBK51)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5561 -.7063 -.7804 -.7663 -.6822 -.4638  
 .757 -.6634 -.7191 -.8107 -.7821 -.0000 -.4747  
 .805 -.6716 -.7630 -.8337 -.8045 -.6218 -.4554  
 .887 -.6907 -.8221 -.8551 -.7478 -.6065 -.4223  
 .969 -.7429 -.8620 -.8413 -.7359 -.5845 -.3680

ALPHA ( 4 ) = 8.070 BETA ( 2 ) = -3.859 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5396 -.5565 -.6109 -.6185 -.5730 -.4658  
 .757 -.5356 -.5663 -.6182 -.6211 -.0000 -.4534  
 .805 -.5497 -.6205 -.6530 -.6442 -.5569 -.4541  
 .887 -.5672 -.6351 -.6659 -.6182 -.5477 -.4355  
 .969 -.6000 -.6710 -.6735 -.6169 -.5234 -.4157

ALPHA ( 4 ) = 8.069 BETA ( 3 ) = .180 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6519 -.5710 -.6409 -.6452 -.5929 -.4920  
 .757 -.5592 -.6203 -.6407 -.6547 -.0000 -.4989  
 .805 -.5509 -.6222 -.6800 -.6676 -.5950 -.4967  
 .887 -.5757 -.6525 -.6873 -.6507 -.5667 -.4754  
 .968 -.6019 -.6745 -.6759 -.6324 -.5755 -.4552

ALPHA ( 4 ) = 9.069 BETA ( 4 ) = 4.237 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5950 -.6318 -.7123 -.7018 -.6359 -.4890  
 .757 -.6042 -.6393 -.7387 -.7114 -.0000 -.4764  
 .805 -.6087 -.6566 -.7445 -.7342 -.5054 -.4583  
 .887 -.6465 -.7144 -.7590 -.6990 -.5742 -.4450  
 .969 -.6977 -.7619 -.7557 -.6553 -.5690 -.4252

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.063 BETA ( 5 ) = 8.284 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8269

(XEBKSI)

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.758	-.6002	-.6925	-.7411	-.6829	-.5628	-.3803
.757	-.6283	-.7066	-.7602	-.7162	.0000	-.3520
.805	-.6529	-.7389	-.7830	-.7100	-.5236	-.3660
.897	-.6954	-.8129	-.7867	-.6674	-.4746	-.3355
.959	-.7462	-.8441	-.7566	-.6211	-.4480	-.3126

ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.847 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6532	-.7010	-.7710	-.7722	-.6743	-.5051
.757	-.6539	-.7095	-.7877	-.7589	.0000	-.4892
.805	-.6594	-.7395	-.8171	-.8042	-.6324	-.4744
.897	-.6919	-.7932	-.8295	-.7631	-.5991	-.4329
.959	-.7415	-.8613	-.9721	-.7369	-.5977	-.4221

ALPHA ( 5 ) = 12.023 BETA ( 2 ) = -3.840 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6538	-.7212	-.8405	-.8405	-.5919	-.4787
.757	-.6539	-.7582	-.8607	-.8469	.0000	-.4573
.805	-.6526	-.8107	-.8819	-.8710	-.5605	-.4539
.897	-.6955	-.8608	-.9328	-.8467	-.5535	-.4313
.959	-.7619	-.9340	-.9857	-.8243	-.5491	-.4172

ALPHA ( 5 ) = 12.027 BETA ( 3 ) = .177 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6786	-.8172	-.9560	-.9708	-.6075	-.5139
.757	-.6795	-.8231	-.9657	-.8691	.0000	-.5013
.805	-.6794	-.8203	-.9636	-.8935	-.6040	-.4950
.897	-.6933	-.8761	-.9732	-.8765	-.5835	-.4773
.959	-.7429	-.9413	-.9718	-.8829	-.5754	-.4653



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073- )

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AMES 11-073(0A148) -140A/B/C/R ORR SPEED BRAKE (XEBK51)

ALPHA ( 5 ) = 12.02+ BETA ( 4 ) = 4.250 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3:70 .4:20 .5070 .6020 .6970 .7920

X/CV

.708 -.6255 -.6632 -.7373 -.7321 -.6387 -.4935  
 .757 -.6394 -.6846 -.7578 -.7335 -.0000 -.4682  
 .825 -.6401 -.7263 -.7755 -.7678 -.6151 -.4651  
 .897 -.6896 -.7676 -.7833 -.7140 -.5932 -.4509  
 .958 -.7235 -.8110 -.7802 -.6817 -.5690 -.4037

ALPHA ( 5 ) = 12.010 BETA ( 5 ) = 8.307 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3:70 .4:20 .5070 .6020 .6970 .7920

X/CV

.708 -.6342 -.6942 -.7732 -.7271 -.6106 -.4092  
 .757 -.6532 -.7193 -.7920 -.7266 -.0000 -.3919  
 .825 -.6732 -.7632 -.8142 -.7477 -.5492 -.3847  
 .897 -.7167 -.8259 -.8318 -.6889 -.5323 -.3532  
 .958 -.7459 -.8412 -.7749 -.6358 -.4813 -.3144

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 TAPULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 (XEBK52) ( 13 AUG 75 )

REFERENCE DATA  
 XREF = 2690.000 SQ.FT. AMEP = 1076.6800 IN. X0  
 XREF = 474.8000 IN. YREF = .0000 IN. Y0  
 XREF = 936.0000 IN. ZREF = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.050 BETA ( 1 ) = -3.960 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

SECTION UPRIGHT HAND INSIDE  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ZV  
 .708 -.5947 -.5974 -.6004 -.5975 -.5779 -.5426  
 .757 -.5925 -.5914 -.6055 -.5932 -.6000 -.5426  
 .805 -.5815 -.5906 -.6089 -.5990 -.5725 -.5402  
 .857 -.5693 -.5809 -.6093 -.5987 -.5687 -.5374  
 .909 -.5570 -.5719 -.6095 -.5985 -.5631 -.5308

ALPHA ( 2 ) = -3.943 BETA ( 2 ) = .166 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

SECTION UPRIGHT HAND INSIDE  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ZV  
 .708 -.5911 -.5928 -.6043 -.5988 -.5789 -.5541  
 .757 -.5903 -.5895 -.5976 -.5900 -.5700 -.5548  
 .805 -.5907 -.5930 -.6092 -.5988 -.5788 -.5546  
 .857 -.5854 -.5974 -.6095 -.5986 -.5754 -.5488  
 .909 -.5892 -.5931 -.6038 -.5917 -.5678 -.5431

ALPHA ( 3 ) = -4.048 BETA ( 3 ) = +.268 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

SECTION UPRIGHT HAND INSIDE  
 Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ZV  
 .708 .5935 .5939 .6047 .5952 .5991 .5650  
 .757 .5919 .5919 .6030 .5957 .6000 .5679  
 .805 .5931 .5931 .6038 .5987 .5884 .5686  
 .857 .5931 .5931 .6035 .5952 .5879 .5689  
 .909 .5932 .5932 .6036 .5929 .5846 .5658

PARAMETRIC DATA

RUDDER = -10.000 SPDRBK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = 4.000 MACH = 1.400

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AXES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE (XEBK52)

ALPHA ( 2 ) = -.027 BETA ( 1 ) = -3.878 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/0V

.709	-.6027	-.5932	-.6072	-.6053	-.5974	-.5565
.757	-.5925	-.5932	-.6126	-.6070	.0000	-.5553
.805	-.5838	-.6070	-.6162	-.6077	-.5822	-.5543
.853	-.5851	-.6143	-.6162	-.6039	-.5784	-.5509
.901	-.6004	-.6161	-.6149	-.5934	-.5732	-.5405

ALPHA ( 2 ) = -.013 BETA ( 2 ) = .172 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/0V

.709	-.5930	-.5922	-.5989	-.5937	-.5823	-.5637
.757	-.5831	-.5933	-.6017	-.5944	.0000	-.5635
.805	-.5681	-.5975	-.6024	-.5951	-.5919	-.5639
.853	-.5912	-.6022	-.6029	-.5927	-.5800	-.5579
.901	-.5928	-.6021	-.6005	-.5861	-.5729	-.5499

ALPHA ( 2 ) = -.015 BETA ( 3 ) = 4.247 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/0V

.709	-.6055	-.5978	-.6034	-.6024	-.5975	-.5774
.757	-.5943	-.5935	-.6034	-.6036	.0000	-.5788
.805	-.5932	-.6021	-.6071	-.6048	-.5972	-.5791
.853	-.6072	-.6054	-.6021	-.6034	-.5953	-.5772
.901	-.6055	-.6056	-.6045	-.5995	-.5890	-.5737

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = -3.886 MACH = 1.3954 Q = 600.16 P = 439.71 RN/L = 2.9092

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/0V

.709	-.6127	-.6113	-.6032	-.6032	-.5955	-.5766
.757	-.6036	-.6028	-.6140	-.6097	.0000	-.5764
.805	-.6034	-.6022	-.6147	-.6104	-.5362	-.5764
.853	-.6038	-.6027	-.6163	-.6089	-.5924	-.5716
.901	-.6020	-.6130	-.6163	-.5995	-.5808	-.5609



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEX52)

ALPHA ( 4 ) = 7.931 BETA ( 3 ) = 4.235 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6074	-.6017	-.6139	-.6134	-.5955	-.5631
.757	-.5968	-.6062	-.6193	-.6148	.0000	-.5631
.805	-.5956	-.6128	-.6205	-.6144	-.5905	-.5619
.897	-.6027	-.6225	-.6214	-.6106	-.5851	-.5596
.963	-.6062	-.6234	-.6191	-.6030	-.5806	-.5535

ALPHA ( 5 ) = 11.858 BETA ( 1 ) = -3.866 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6202	-.6141	-.6167	-.6193	-.6146	-.5964
.757	-.6103	-.6145	-.6203	-.6205	.0000	-.5962
.805	-.6108	-.6164	-.6205	-.6217	-.6148	-.5969
.897	-.6115	-.6229	-.6207	-.6210	-.6151	-.5958
.963	-.6110	-.6234	-.6203	-.6165	-.6047	-.5851

ALPHA ( 5 ) = 11.867 BETA ( 2 ) = .167 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6126	-.6075	-.6115	-.6083	-.5965	-.5800
.757	-.6041	-.6095	-.6147	-.6098	.0000	-.5800
.805	-.6053	-.6119	-.6168	-.6109	-.5965	-.5807
.897	-.6075	-.6139	-.6173	-.6098	-.5923	-.5763
.963	-.6098	-.6144	-.6147	-.6005	-.5873	-.5603

ALPHA ( 5 ) = 11.955 BETA ( 3 ) = 4.248 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6163	-.6095	-.6222	-.6229	-.6047	-.5692
.757	-.6094	-.6152	-.6279	-.6238	.0000	-.5697
.805	-.6050	-.6218	-.6298	-.6235	-.5983	-.5585
.897	-.6119	-.6270	-.6309	-.6203	-.5952	-.5638
.963	-.6154	-.6222	-.6276	-.6132	-.5884	-.5572

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK52)

ALPHA ( 6 ) = 15.826 BETA ( 1 ) = -3.845 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6290	-.6219	-.6298	-.6331	-.6281	-.6061
.757	-.6193	-.6247	-.6352	-.6343	.0000	-.6083
.805	-.6193	-.6271	-.6354	-.6354	-.6274	-.6061
.857	-.6217	-.6348	-.6364	-.6352	-.6253	-.6069
.908	-.6240	-.6374	-.6359	-.6307	-.6201	-.6022

ALPHA ( 6 ) = 15.841 BETA ( 2 ) = .165 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6213	-.6163	-.6228	-.6205	-.6066	-.5894
.757	-.6141	-.6203	-.6259	-.6205	.0000	-.5910
.805	-.6153	-.6222	-.6274	-.6203	-.6075	-.5889
.857	-.6124	-.6255	-.6278	-.6177	-.6035	-.5871
.908	-.6177	-.6291	-.6254	-.6113	-.5967	-.5738

ALPHA ( 6 ) = 15.833 BETA ( 3 ) = 4.274 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6318	-.6283	-.6366	-.6392	-.6194	-.5872
.757	-.6224	-.6304	-.6423	-.6399	.0000	-.5868
.805	-.6228	-.6345	-.6451	-.6392	-.6156	-.5846
.857	-.6290	-.6386	-.6455	-.6345	-.6116	-.5767
.908	-.6320	-.6410	-.6428	-.6303	-.6090	-.5684

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK53) ( 13 AUG 75 )

## REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8300 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.036 BETA ( 1 ) = -3.860 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060  
 ALPHA ( 2 ) = -4.029 BETA ( 2 ) = .182 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7300 -.7217 -.7395 -.7324 -.7094 -.6740  
 .757 -.7139 -.7279 -.7443 -.7346 .0000 -.6743  
 .805 -.7139 -.7378 -.7488 -.7334 -.7032 -.6724  
 .897 -.7203 -.7501 -.7516 -.7284 -.6956 -.6685  
 .959 -.7299 -.7537 -.7455 -.7194 -.6897 -.6552

ALPHA ( 1 ) = -4.029 BETA ( 2 ) = .182 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060  
 ALPHA ( 2 ) = -4.029 BETA ( 2 ) = .182 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7287 -.7197 -.7270 -.7218 -.7106 -.6888  
 .757 -.7157 -.7242 -.7296 -.7232 .0000 -.6900  
 .805 -.7192 -.7278 -.7313 -.7225 -.7111 -.6905  
 .897 -.7240 -.7334 -.7313 -.7201 -.7083 -.6881  
 .958 -.7264 -.7346 -.7277 -.7154 -.6988 -.6776

ALPHA ( 1 ) = -4.033 BETA ( 3 ) = 4.271 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060  
 ALPHA ( 2 ) = -4.033 BETA ( 3 ) = 4.271 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0060

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.7446 -.7323 -.7413 -.7387 -.7323 -.7133  
 .757 -.7235 -.7325 -.7411 -.7394 .0000 -.7133  
 .805 -.7282 -.7358 -.7425 -.7411 -.7309 -.7152  
 .897 -.7325 -.7379 -.7441 -.7385 -.7306 -.7083  
 .958 -.7356 -.7403 -.7411 -.7361 -.7252 -.7035

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = 4.000 MACH = 1.250

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK53)

ALPHA ( 2 ) = -.011 BETA ( 1 ) = -3.881 MACH = 1.2454 O = 599.32 P = 552.04 RN/L = 3.0119

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.709	-.7278	-.7222	-.7376	-.7376	-.7102	-.6771
.757	-.7156	-.7255	-.7446	-.7385	.0000	-.6774
.805	-.7155	-.7314	-.7479	-.7420	-.7083	-.6736
.857	-.7224	-.7522	-.7515	-.7354	-.7033	-.6766
.909	-.7271	-.7558	-.7508	-.7243	-.6946	-.6624

ALPHA ( 2 ) = .001 BETA ( 2 ) = .178 MACH = 1.2454 O = 599.32 P = 552.04 RN/L = 3.0119

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.709	-.7790	-.7314	-.7420	-.7346	-.7199	-.6979
.757	-.7267	-.7359	-.7439	-.7346	.0000	-.6986
.805	-.7269	-.7409	-.7448	-.7351	-.7181	-.6989
.857	-.7326	-.7415	-.7453	-.7325	-.7162	-.6893
.909	-.7354	-.7427	-.7422	-.7233	-.7091	-.6746

ALPHA ( 2 ) = .000 BETA ( 3 ) = 4.247 MACH = 1.2454 O = 599.32 P = 552.04 RN/L = 3.0119

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.709	-.7556	-.7442	-.7433	-.7459	-.7395	-.7234
.757	-.7416	-.7458	-.7507	-.7466	.0000	-.7246
.805	-.7404	-.7468	-.7526	-.7478	-.7393	-.7263
.857	-.7423	-.7412	-.7530	-.7478	-.7386	-.7121
.909	-.7444	-.7443	-.7559	-.7424	-.7315	-.7050

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -3.877 MACH = 1.2467 O = 599.84 P = 551.34 RN/L = 3.0121

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.709	-.7272	-.7155	-.7246	-.7265	-.7125	-.6853
.757	-.7119	-.7158	-.7276	-.7283	.0000	-.6865
.805	-.7128	-.7156	-.7309	-.7312	-.7153	-.6898
.857	-.7102	-.7242	-.7345	-.7265	-.7106	-.6854
.909	-.7152	-.7233	-.7334	-.7172	-.6943	-.6646



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK53)

ALPHA ( 3 ) = 3.945 BETA ( 2 ) = .180 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7140 -.7055 -.7229 -.7180 -.6995 -.6653  
 .757 -.7029 -.7114 -.7281 -.7187 -.7000 -.6672  
 .805 -.7019 -.7206 -.7317 -.7189 -.6965 -.6679  
 .897 -.7088 -.7331 -.7341 -.7163 -.6917 -.6643  
 .958 -.7151 -.7369 -.7305 -.7071 -.6842 -.6468

ALPHA ( 3 ) = 3.949 BETA ( 3 ) = 4.232 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7200 -.7115 -.7274 -.7229 -.6985 -.6677  
 .757 -.7053 -.7176 -.7341 -.7234 -.7000 -.6677  
 .805 -.7048 -.7287 -.7388 -.7232 -.6938 -.6680  
 .897 -.7155 -.7423 -.7402 -.7177 -.6891 -.6646  
 .958 -.7247 -.7435 -.7352 -.7078 -.6946 -.6518

ALPHA ( 4 ) = 7.975 BETA ( 1 ) = -3.876 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7196 -.7093 -.7191 -.7193 -.7094 -.6839  
 .757 -.7066 -.7116 -.7212 -.7207 -.7000 -.6839  
 .805 -.7064 -.7149 -.7229 -.7255 -.7108 -.6853  
 .897 -.7092 -.7165 -.7259 -.7250 -.7096 -.6809  
 .958 -.7103 -.7132 -.7253 -.7153 -.6952 -.6624

ALPHA ( 4 ) = 7.918 BETA ( 2 ) = .169 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7063 -.7016 -.7173 -.7168 -.6949 -.6597  
 .757 -.6954 -.7053 -.7230 -.7190 -.7000 -.6580  
 .805 -.6938 -.7143 -.7239 -.7180 -.6939 -.6593  
 .897 -.6934 -.7295 -.7331 -.7124 -.6849 -.6535  
 .958 -.7050 -.7320 -.7303 -.7057 -.6767 -.6377

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ALPHA ( 4 ) = 7.822 BETA ( 3 ) = 4.233 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143  
(XEBK53)

SECTION 1 UPRIGHT HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
703 -7167 -7109 -7281 -7293 -7005 -6589  
757 -7221 -7148 -7367 -7312 -7000 -6577  
805 -7230 -7239 -7419 -7296 -6932 -6568  
857 -7144 -7419 -7452 -7234 -6870 -6509  
908 -7236 -7443 -7437 -7135 -6811 -6424

ALPHA ( 5 ) = 11.916 BETA ( 1 ) = -3.857 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

SECTION 1 UPRIGHT HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
703 -7109 -7020 -7156 -7156 -7038 -6758  
757 -6984 -7050 -7182 -7173 -7000 -6768  
805 -7025 -7105 -7182 -7208 -7057 -6780  
857 -7015 -7162 -7215 -7203 -7057 -6752  
908 -7031 -7164 -7210 -7113 -6936 -6591

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .181 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

SECTION 1 UPRIGHT HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
703 -7012 -6990 -7144 -7145 -6922 -6502  
757 -6982 -6990 -7217 -7177 -6930 -6509  
805 -6953 -7057 -7295 -7177 -6849 -6488  
857 -6932 -7092 -7307 -7144 -6804 -6481  
908 -7021 -7131 -7292 -7042 -6731 -6349

ALPHA ( 5 ) = 11.935 BETA ( 3 ) = 4.245 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

SECTION 1 UPRIGHT HANG INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
703 -7017 -7005 -7147 -7211 -6892 -6446  
757 -6973 -7033 -7262 -7218 -6900 -6411  
805 -6945 -7132 -7317 -7225 -6814 -6376  
857 -6912 -7164 -7350 -7167 -6741 -6353  
908 -7004 -7154 -7353 -7057 -6570 -6247

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBKSH) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2592.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0600 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 55.000  
 BOXLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = 4.000 MACH = 1.100

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = -3.853 MACH = 1.1014 3 = 600.89 P = 707.69 RN/L = 3.1837  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z'BY .3170 .4120 .5070 .6020 .6970 .7920  
 X'CV

.703 -.8253 -.9161 -.8393 -.8400 -.8114 -.7549  
 .757 -.8069 -.8215 -.8489 -.8452 .0000 -.7545  
 .805 -.8054 -.8252 -.8591 -.8463 -.8010 -.7542  
 .837 -.8220 -.8628 -.8571 -.8393 -.7949 -.7507  
 .908 -.8396 -.8730 -.8522 -.8286 -.7838 -.7363

ALPHA ( 2 ) = -3.931 BETA ( 2 ) = .182 MACH = 1.1014 0 = 600.89 P = 707.69 RN/L = 3.1837  
 SECTION ( 2 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z'BY .3170 .4120 .5070 .6020 .6970 .7920  
 X'CV

.703 -.7861 -.7821 -.8068 -.8091 -.7855 -.7300  
 .757 -.7700 -.7690 -.8195 -.8136 .0000 -.7305  
 .835 -.7707 -.8050 -.8275 -.8146 -.7763 -.7312  
 .837 -.7908 -.8302 -.8334 -.8094 -.7720 -.7291  
 .908 -.8075 -.8409 -.8311 -.8020 -.7652 -.7152

ALPHA ( 3 ) = -3.991 BETA ( 3 ) = 4.263 MACH = 1.1014 0 = 600.89 P = 707.69 RN/L = 3.1837  
 SECTION ( 3 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z'BY .3170 .4120 .5070 .6020 .6970 .7920  
 X'CV

.703 -.7954 -.7893 -.8111 -.8203 -.7966 -.7494  
 .757 -.7782 -.7945 -.8231 -.8229 .0000 -.7454  
 .805 -.7775 -.8080 -.8328 -.8233 -.7907 -.7447  
 .837 -.7947 -.8345 -.8420 -.8181 -.7855 -.7421  
 .908 -.8127 -.8433 -.8361 -.8137 -.7766 -.7310

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK54)

ALPHA ( 2 ) = .009 BETA ( 1 ) = -3.870 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7979	-.7332	-.8135	-.8240	-.7907	-.7336
.757	-.7840	-.7979	-.8268	-.8287	.0000	-.7327
.805	-.7842	-.8128	-.8385	-.8283	-.7858	-.7317
.853	-.7970	-.8355	-.8481	-.8233	-.7773	-.7309
.901	-.9111	-.8575	-.8476	-.8115	-.7645	-.7129

ALPHA ( 2 ) = .092 BETA ( 2 ) = .176 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7656	-.7665	-.7891	-.8013	-.7743	-.7154
.757	-.7640	-.7726	-.8058	-.8039	.0000	-.7137
.805	-.7538	-.7663	-.8193	-.8072	-.7673	-.7128
.853	-.7710	-.8153	-.8301	-.8025	-.7600	-.7109
.901	-.7901	-.8341	-.8280	-.7942	-.7517	-.6996

ALPHA ( 2 ) = .026 BETA ( 3 ) = -4.243 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7537	-.7649	-.7862	-.7953	-.7694	-.7153
.757	-.7505	-.7713	-.7999	-.8022	.0000	-.7129
.805	-.7510	-.7843	-.8131	-.8022	-.7642	-.7110
.853	-.7591	-.8097	-.8232	-.7953	-.7609	-.7018
.901	-.7676	-.8376	-.8304	-.7871	-.7479	-.6993

ALPHA ( 3 ) = 3.932 BETA ( 1 ) = -3.873 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1859

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7684	-.7682	-.7657	-.8021	-.7778	-.7170
.757	-.7573	-.7743	-.8045	-.8092	.0000	-.7146
.805	-.7532	-.7876	-.8151	-.8109	-.7702	-.7127
.853	-.7715	-.8263	-.8450	-.8071	-.7650	-.7047
.901	-.7921	-.8473	-.8279	-.7927	-.7464	-.6891

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.933 BETA ( 2 ) = .171 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1859  
(XEBK54)

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.7436 -.7448 -.7685 -.7843 -.7586 -.6937  
.757 -.7323 -.7490 -.7840 -.7895 -.0000 -.6906  
.805 -.7320 -.7646 -.7930 -.7930 -.7482 -.6932  
.887 -.7481 -.7846 -.8095 -.7885 -.7413 -.6881  
.958 -.7688 -.8145 -.8117 -.7777 -.7324 -.6733

ALPHA ( 3 ) = 3.943 BETA ( 3 ) = 4.232 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1859

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.7425 -.7455 -.7681 -.7796 -.7482 -.6877  
.757 -.7303 -.7463 -.7830 -.7839 -.0000 -.6851  
.805 -.7291 -.7666 -.7971 -.7846 -.7411 -.6827  
.887 -.7470 -.7915 -.8075 -.7822 -.7338 -.6777  
.958 -.7685 -.8369 -.8049 -.7697 -.7248 -.6628

ALPHA ( 4 ) = 7.306 BETA ( 1 ) = -3.871 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1852

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.7477 -.7487 -.7745 -.7819 -.7589 -.6980  
.757 -.7357 -.7510 -.7847 -.7880 -.0000 -.6942  
.805 -.7364 -.7540 -.7956 -.7915 -.7540 -.6895  
.887 -.7501 -.7865 -.8035 -.7892 -.7459 -.6955  
.958 -.7640 -.7989 -.8090 -.7835 -.7315 -.6685

ALPHA ( 4 ) = 8.005 BETA ( 2 ) = .170 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1852

SECTION ( UPRIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.7121 -.7138 -.7351 -.7528 -.7299 -.6609  
.757 -.7029 -.7138 -.7520 -.7557 -.0000 -.6566  
.805 -.7212 -.7348 -.7551 -.7611 -.7178 -.6550  
.887 -.7155 -.7520 -.7800 -.7566 -.7122 -.6486  
.958 -.7354 -.7900 -.7209 -.7521 -.7038 -.6352

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AMES 11-073(0A148) -14CA/B/C/R ORB SPEED BRAKE

(XEBK54)

ALPHA ( 4 ) = 8.008 BETA ( 3 ) = 4.224 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7377	-.7417	-.7634	-.7710	-.7407	-.6699
.757	-.7266	-.7441	-.7738	-.7745	.0000	-.6637
.805	-.7230	-.7620	-.7873	-.7781	-.7287	-.6606
.887	-.7400	-.7910	-.7946	-.7733	-.7166	-.6568
.958	-.7674	-.8000	-.7927	-.7606	-.7095	-.6490

ALPHA ( 5 ) = 11.922 BETA ( 1 ) = -3.854 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7520	-.7536	-.7740	-.7819	-.7636	-.7095
.757	-.7423	-.7541	-.7845	-.7863	.0000	-.7067
.805	-.7411	-.7556	-.7908	-.7892	-.7544	-.7053
.887	-.7555	-.7832	-.7937	-.7851	-.7528	-.6976
.958	-.7671	-.7816	-.7979	-.7783	-.7385	-.6849

ALPHA ( 5 ) = 11.941 BETA ( 2 ) = .179 MACH = 1.1035 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7505	-.7555	-.7811	-.7976	-.7622	-.6928
.757	-.7423	-.7500	-.7928	-.8017	.0000	-.6909
.805	-.7365	-.7743	-.8090	-.9043	-.7480	-.6859
.887	-.7585	-.8079	-.8235	-.7960	-.7426	-.6856
.958	-.7744	-.8244	-.8241	-.7872	-.7308	-.6724

ALPHA ( 5 ) = 12.035 BETA ( 3 ) = 4.239 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7505	-.7559	-.7809	-.7823	-.7478	-.6785
.757	-.7310	-.7530	-.7920	-.7836	.0000	-.6747
.805	-.7396	-.7810	-.8052	-.7894	-.7378	-.6719
.887	-.7525	-.8006	-.8085	-.7823	-.7300	-.6643
.958	-.7697	-.8083	-.8045	-.7731	-.7241	-.6542

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK55) ( 13 AUG 75 )

## REFERENCE DATA

SIZE = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.9000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0690 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = 4.000 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -3.861 MACH = .90063 Q = 600.64 P = 1057.8 RNL = 3.5876

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X'CV

.708 -.4464 -.4703 -.4939 -.5125 -.4858 -.4104  
 .757 -.4459 -.4656 -.4839 -.5039 -.4800 -.3988  
 .805 -.4484 -.4834 -.5319 -.5258 -.4901 -.4050  
 .887 -.4731 -.5232 -.5537 -.5253 -.4742 -.3957  
 .968 -.5003 -.5346 -.5515 -.5187 -.4681 -.3917

ALPHA ( 1 ) = -3.902 BETA ( 2 ) = .179 MACH = .90063 Q = 600.64 P = 1057.8 RNL = 3.5876

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X'CV

.708 -.4633 -.4787 -.5048 -.5220 -.5069 -.4497  
 .757 -.4591 -.4827 -.5107 -.5305 -.5000 -.4464  
 .805 -.4572 -.4907 -.5372 -.5369 -.5053 -.4441  
 .887 -.4725 -.5187 -.5592 -.5357 -.4905 -.4354  
 .968 -.4914 -.5170 -.5624 -.5433 -.4901 -.4276

ALPHA ( 1 ) = -3.962 BETA ( 3 ) = 4.262 MACH = .90063 Q = 600.64 P = 1057.8 RNL = 3.5876

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X'CV

.708 -.5317 -.5386 -.5709 -.5910 -.5792 -.4882  
 .757 -.5249 -.5431 -.6019 -.6086 -.5792 -.4873  
 .805 -.5272 -.5701 -.6131 -.6209 -.5756 -.4949  
 .887 -.5515 -.6011 -.6327 -.6064 -.5633 -.4815  
 .968 -.5788 -.6353 -.6500 -.6140 -.5548 -.4729

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK55)

ALPHA ( 2 ) = .074 BETA ( 1 ) = -3.874 MACH = .89883 Q = 599.16 P = 1059.5 RV/L = 3.5834

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4762	-.4963	-.5182	-.5419	-.5184	-.4288
.757	-.4715	-.4892	-.5107	-.5516	.0000	-.4233
.805	-.4731	-.5022	-.5509	-.5599	-.5028	-.4203
.857	-.4904	-.5574	-.5848	-.5949	-.5016	-.4139
.908	-.5212	-.5795	-.6030	-.5549	-.4865	-.3992

ALPHA ( 2 ) = .080 BETA ( 2 ) = .167 MACH = .89883 Q = 599.16 P = 1059.5 RV/L = 3.5834

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4822	-.4952	-.5219	-.5477	-.5391	-.4703
.757	-.4803	-.5004	-.5389	-.5619	.0000	-.4632
.805	-.4815	-.5085	-.5630	-.5654	-.5294	-.4679
.857	-.4955	-.5431	-.5872	-.5732	-.4578	-.4551
.908	-.5293	-.5812	-.5869	-.5645	-.5209	-.4551

ALPHA ( 2 ) = .057 BETA ( 3 ) = 4.244 MACH = .89883 Q = 599.16 P = 1059.5 RV/L = 3.5834

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5444	-.5591	-.6025	-.6255	-.5963	-.4881
.757	-.5420	-.5756	-.6271	-.6404	.0000	-.4876
.805	-.5470	-.6038	-.6530	-.6515	-.5774	-.4909
.857	-.5511	-.6509	-.6792	-.6416	-.5739	-.4770
.908	-.5599	-.6771	-.6789	-.6335	-.5599	-.4616

ALPHA ( 3 ) = 3.945 BETA ( 1 ) = -3.879 MACH = .89970 Q = 599.92 P = 1058.7 RV/L = 3.5860

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4437	-.4959	-.5434	-.5677	-.5199	-.3953
.757	-.4466	-.5144	-.5732	-.5739	.0000	-.4043
.805	-.4434	-.5337	-.5934	-.5859	-.4939	-.3962
.857	-.4622	-.5776	-.6259	-.5717	-.4890	-.3820
.908	-.4945	-.6276	-.5954	-.5651	-.4731	-.3720



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK55)

ALPHA ( 3 ) = 3.951 BETA ( 2 ) = .176 MACH = .89970 Q = 599.92 P = 1059.7 RN/L = 3.5860

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.4972	-.5073	-.5355	-.5592	-.5516	-.4646
.757	-.4917	-.5183	-.5639	-.5758	.0000	-.4726
.805	-.4884	-.5310	-.5814	-.5926	-.5377	-.4648
.897	-.5144	-.5713	-.5937	-.5819	-.5372	-.4556
.969	-.5433	-.5937	-.6077	-.5781	-.5194	-.4485

ALPHA ( 3 ) = 3.956 BETA ( 3 ) = .4235 MACH = .89970 Q = 599.92 P = 1059.7 RN/L = 3.5860

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.5538	-.5701	-.6115	-.6317	-.5961	-.4747
.757	-.5477	-.5770	-.6447	-.6421	.0000	-.4678
.805	-.5545	-.6148	-.6610	-.6551	-.5760	-.4510
.897	-.5589	-.6226	-.6755	-.6435	-.5628	-.4604
.969	-.6304	-.6920	-.6969	-.6352	-.5431	-.4401

ALPHA ( 4 ) = 7.993 BETA ( 1 ) = -3.876 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.5087	-.5378	-.5648	-.5975	-.5401	-.4086
.757	-.5056	-.5378	-.6035	-.6215	.0000	-.3965
.805	-.5034	-.5614	-.6357	-.6249	-.5293	-.3915
.897	-.5021	-.6115	-.6699	-.6090	-.4983	-.3798
.969	-.5843	-.6545	-.6795	-.6033	-.4796	-.3552

ALPHA ( 4 ) = 8.030 BETA ( 2 ) = .173 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728	-.5127	-.5327	-.5543	-.5887	-.5671	-.4743
.757	-.5124	-.5313	-.5809	-.6025	.0000	-.4700
.805	-.5176	-.5637	-.6192	-.6174	-.5494	-.4617
.897	-.5229	-.6230	-.6377	-.5948	-.5434	-.4522
.969	-.5922	-.6649	-.6377	-.6131	-.5323	-.4394

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AMES 11-073(0A148) - 0A/B/C/R ORB SPEED GRADE

(XEBK55)

ALPHA ( 4 ) = 8.015 BETA ( 3 ) = 4.230 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5890

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5589	-.5931	-.6331	-.6374	-.5757	-.4448
.757	-.5539	-.5997	-.6526	-.6597	.0000	-.4318
.805	-.5527	-.6437	-.6918	-.6604	-.5489	-.4266
.857	-.6159	-.6835	-.6980	-.6417	-.5487	-.4300
.905	-.6557	-.7170	-.6859	-.6165	-.5404	-.4121

ALPHA ( 5 ) = 11.973 BETA ( 1 ) = -3.851 MACH = .89910 Q = 599.49 P = 1059.5 RN/L = 3.5890

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5339	-.5518	-.6078	-.6336	-.5557	-.4195
.757	-.5352	-.5541	-.6350	-.6402	.0000	-.4176
.805	-.5358	-.5918	-.6535	-.6504	-.5456	-.4067
.857	-.5515	-.6239	-.6839	-.6383	-.5194	-.3953
.905	-.5724	-.6745	-.6367	-.6201	-.5004	-.3714

ALPHA ( 5 ) = 11.997 BETA ( 2 ) = .182 MACH = .89910 Q = 599.49 P = 1059.5 RN/L = 3.5890

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5355	-.5734	-.6207	-.6290	-.5684	-.4559
.757	-.5417	-.5696	-.6454	-.6456	.0000	-.4380
.805	-.5507	-.6180	-.6935	-.6461	-.5493	-.4461
.857	-.5933	-.6812	-.6935	-.6321	-.5410	-.4274
.905	-.6313	-.6924	-.6564	-.6250	-.5296	-.4069

ALPHA ( 5 ) = 12.005 BETA ( 3 ) = 4.250 MACH = .89910 Q = 599.49 P = 1059.5 RN/L = 3.5890

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5950	-.6236	-.6547	-.6313	-.5498	-.4124
.757	-.5919	-.6515	-.6777	-.6502	.0000	-.4133
.805	-.6073	-.6733	-.6937	-.6435	-.5365	-.4107
.857	-.6560	-.7070	-.6954	-.6370	-.5140	-.3965
.905	-.6730	-.7132	-.6524	-.6142	-.4389	-.3875

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XE8K56) ( 13 AUG 75 )

REFERENCE DATA  
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
BREF = 936.0580 IN. ZMRP = 375.0000 IN. Z0  
SCALE = .0300

PARAMETRIC DATA  
RUDDER = -10.000 SPD88K = 55.000  
BOFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = 4.000 MACH = .600

ALPHA ( 1 ) = -4.044 BETA ( 1 ) = -7.862 MACH = .59674 Q = 594.66 P = 2385.6 RV/L = 4.8797

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5635 -.5904 -.6634 -.6219 -.5365 -.4109  
.757 -.5624 -.6116 -.6803 -.6459 -.0000 -.4075  
.805 -.5585 -.6434 -.7022 -.6369 -.5169 -.3943  
.887 -.5935 -.7030 -.7132 -.6302 -.5114 -.3793  
.968 -.6558 -.7202 -.6969 -.6290 -.5119 -.3617

ALPHA ( 1 ) = -3.971 BETA ( 2 ) = -3.856 MACH = .59674 Q = 594.66 P = 2385.6 RV/L = 4.8797

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5171 -.5600 -.6249 -.5965 -.5210 -.4016  
.757 -.5308 -.5816 -.6510 -.6245 -.0000 -.3969  
.805 -.5378 -.6099 -.6622 -.6273 -.5143 -.4004  
.887 -.5864 -.6680 -.6862 -.6048 -.4984 -.3853  
.968 -.6306 -.6955 -.6900 -.5934 -.4849 -.3629

ALPHA ( 1 ) = -3.944 BETA ( 3 ) = .179 MACH = .59674 Q = 594.66 P = 2385.6 RV/L = 4.8797

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5229 -.5702 -.6522 -.6143 -.5490 -.4081  
.757 -.5339 -.5820 -.6625 -.6375 -.0000 -.4038  
.805 -.5531 -.6333 -.6865 -.6465 -.5210 -.3939  
.887 -.5928 -.6992 -.7059 -.6342 -.5099 -.3694  
.968 -.6552 -.7231 -.6945 -.6088 -.4921 -.3731

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK56)

ALPHA ( 1 ) = -3.952 BETA ( 4 ) = 4.259 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5687	-.6379	-.7039	-.6460	-.5504	-.3892
.757	-.5753	-.6534	-.7134	-.6676	.0000	-.3823
.805	-.6153	-.7052	-.7327	-.6638	-.5300	-.3802
.897	-.6741	-.7336	-.7388	-.6408	-.5072	-.3650
.958	-.7212	-.7538	-.7246	-.6204	-.4777	-.3454

ALPHA ( 1 ) = -3.957 BETA ( 5 ) = 8.330 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6477	-.7278	-.7811	-.6679	-.4932	-.3245
.757	-.6597	-.7265	-.7813	-.6776	.0000	-.3242
.805	-.7125	-.8220	-.7913	-.6717	-.4806	-.3266
.897	-.7656	-.8373	-.7982	-.6380	-.4588	-.3175
.958	-.8115	-.8373	-.7611	-.5856	-.4094	-.3097

ALPHA ( 2 ) = .082 BETA ( 1 ) = -7.901 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6544	-.6939	-.7967	-.7122	-.5525	-.3573
.757	-.6409	-.7202	-.7955	-.7258	.0000	-.3457
.805	-.6866	-.7643	-.8215	-.7201	-.5159	-.3481
.897	-.7270	-.8526	-.8291	-.6932	-.4940	-.3350
.958	-.7948	-.8553	-.8050	-.6464	-.4916	-.3253

ALPHA ( 2 ) = .093 BETA ( 2 ) = -3.873 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5539	-.5939	-.6552	-.6354	-.5411	-.3876
.757	-.5596	-.6078	-.6910	-.6437	.0000	-.3947
.805	-.5729	-.6589	-.7153	-.6555	-.5233	-.3605
.897	-.6279	-.7211	-.7285	-.6338	-.4568	-.3706
.958	-.6853	-.7334	-.7191	-.6170	-.4805	-.3419

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ALPHA ( 2 ) = .095 BETA ( 3 ) = .179 MACH = .59728 Q = .595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP (XEBK56)

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5721 -.6167 -.6799 -.6484 -.5624 -.4000  
 .757 -.5591 -.6493 -.7215 -.6806 .0000 -.3931  
 .805 -.5874 -.6950 -.7451 -.6763 -.5286 -.3988  
 .887 -.6575 -.7457 -.7451 -.6624 -.5238 -.3641  
 .959 -.6943 -.7493 -.7236 -.6279 -.4938 -.3563

ALPHA ( 2 ) = .092 BETA ( 4 ) = 4.242 MACH = .59728 Q = .595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6024 -.6718 -.7238 -.6553 -.5313 -.3809  
 .757 -.6108 -.6950 -.7532 -.6756 .0000 -.3735  
 .805 -.6427 -.7288 -.7551 -.6706 -.5129 -.3589  
 .897 -.7119 -.7699 -.7593 -.6647 -.4982 -.3524  
 .959 -.7441 -.7801 -.7503 -.6169 -.4634 -.3259

ALPHA ( 2 ) = .089 BETA ( 5 ) = 8.298 MACH = .59728 Q = .595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6856 -.7743 -.8170 -.6669 -.4686 -.2930  
 .757 -.6970 -.8260 -.8310 -.6821 .0000 -.3009  
 .805 -.7369 -.8631 -.8258 -.6771 -.4366 -.2850  
 .897 -.8229 -.8932 -.8282 -.6399 -.4235 -.2932  
 .958 -.8503 -.8655 -.7746 -.5725 -.3801 -.2718

ALPHA ( 3 ) = 4.036 BETA ( 1 ) = -7.914 MACH = .59696 Q = .595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.7334 -.7595 -.8631 -.7725 -.5508 -.2948  
 .757 -.7146 -.8106 -.9277 -.8063 .0000 -.3031  
 .805 -.7191 -.8775 -.9397 -.7842 -.5080 -.2936  
 .897 -.8082 -.9384 -.9625 -.7322 -.4878 -.2809  
 .959 -.8372 -.9372 -.9055 -.5735 -.4259 -.2435

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK56)

ALPHA ( 3 ) = 4.041 BETA ( 2 ) = -3.873 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5798 -.6347 -.7101 -.8527 -.5005 -.3286  
 .757 -.5852 -.6472 -.7331 -.8439 .0000 -.3245  
 .805 -.6045 -.7150 -.7531 -.8594 -.4772 -.3262  
 .887 -.6719 -.7727 -.7600 -.8282 -.4527 -.3081  
 .958 -.7324 -.7847 -.7379 -.5983 -.4307 -.2723

ALPHA ( 3 ) = 4.096 BETA ( 3 ) = .178 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5825 -.6385 -.7097 -.8712 -.5666 -.3918  
 .757 -.5879 -.6435 -.7246 -.8689 .0000 -.3804  
 .805 -.6018 -.6977 -.7381 -.8838 -.5311 -.3793  
 .887 -.6778 -.7626 -.7574 -.8620 -.5161 -.3635  
 .958 -.7275 -.7824 -.7365 -.6314 -.4872 -.3418

ALPHA ( 3 ) = 3.977 BETA ( 4 ) = 4.232 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5958 -.6625 -.7182 -.8224 -.4990 -.3323  
 .757 -.6039 -.6809 -.7319 -.8428 .0000 -.3364  
 .805 -.6405 -.7216 -.7457 -.8485 -.4874 -.3440  
 .887 -.6955 -.7548 -.7362 -.8246 -.4473 -.3325  
 .958 -.7317 -.7559 -.7094 -.5793 -.4219 -.3046

ALPHA ( 3 ) = 4.011 BETA ( 5 ) = 8.279 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7202 -.8115 -.8210 -.8779 -.4993 -.2765  
 .757 -.7309 -.8334 -.8348 -.8940 .0000 -.2898  
 .805 -.7759 -.8770 -.8427 -.8772 -.4521 -.3033  
 .887 -.8253 -.8865 -.8255 -.8551 -.4276 -.2921  
 .958 -.8500 -.8686 -.7594 -.5593 -.3726 -.2733

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## TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

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AMES 11-073(OAI48) -140A/B/C/R ORB SPEED BRAKE

(XEBK56)

ALPHA ( 4 ) = 8.004 BETA ( 1 ) = -7.903 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5708 -.7449 -.8434 -.7037 -.4394 -.2396  
 .757 -.5701 -.7703 -.8754 -.7222 .0000 -.2405  
 .805 -.7006 -.8422 -.8947 -.6987 -.4296 -.2268  
 .837 -.7637 -.9233 -.8668 -.6683 -.3679 -.2221  
 .958 -.8334 -.9429 -.8437 -.6133 -.3459 -.2164

ALPHA ( 4 ) = 8.017 BETA ( 2 ) = -3.872 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5809 -.6280 -.7086 -.6233 -.4663 -.2907  
 .757 -.5776 -.6459 -.7369 -.6442 .0000 -.2757  
 .805 -.5943 -.6968 -.7488 -.6445 -.4468 -.2783  
 .837 -.6531 -.7703 -.7632 -.6372 -.4175 -.2653  
 .958 -.7421 -.7946 -.7443 -.5572 -.3781 -.2709

ALPHA ( 4 ) = 7.955 BETA ( 3 ) = .166 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5918 -.6397 -.7192 -.6597 -.5559 -.3730  
 .757 -.5956 -.6613 -.7388 -.6850 .0000 -.3569  
 .805 -.6183 -.7250 -.7471 -.6839 -.5325 -.3664  
 .837 -.6782 -.7692 -.7666 -.6526 -.4986 -.3588  
 .958 -.7268 -.7727 -.7483 -.6374 -.4652 -.3288

ALPHA ( 4 ) = 7.931 BETA ( 4 ) = 4.229 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6210 -.5535 -.6992 -.6251 -.5061 -.3397  
 .757 -.5984 -.5653 -.7215 -.6462 .0000 -.3363  
 .805 -.6335 -.7189 -.7334 -.6502 -.4741 -.3275  
 .837 -.6804 -.7457 -.7224 -.5175 -.4624 -.3293  
 .958 -.7385 -.7794 -.7039 -.5797 -.4356 -.3102

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK56)

ALPHA ( 4 ) = 7.997 BETA ( 5 ) = 8.286 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6830	-.7387	-.7499	-.6100	-.4595	-.3177
.757	-.6954	-.7651	-.7530	-.6420	.0000	-.3232
.805	-.7169	-.7723	-.7570	-.6373	-.4564	-.3279
.857	-.7540	-.8039	-.7295	-.6085	-.4275	-.3247
.909	-.7714	-.7840	-.6764	-.5216	-.3895	-.3123

ALPHA ( 5 ) = 11.920 BETA ( 1 ) = -7.867 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6478	-.7007	-.8043	-.6658	-.4268	-.2372
.757	-.6297	-.7219	-.8231	-.6867	.0000	-.2422
.805	-.6590	-.7308	-.8431	-.6554	-.3925	-.2384
.857	-.7127	-.8007	-.8322	-.6215	-.3656	-.2444
.909	-.8131	-.8765	-.8057	-.6018	-.3571	-.2470

ALPHA ( 5 ) = 11.942 BETA ( 2 ) = -3.850 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5787	-.6181	-.6926	-.6375	-.4899	-.3174
.757	-.5793	-.6392	-.7159	-.6589	.0000	-.3129
.805	-.6344	-.6375	-.7476	-.6458	-.4564	-.3029
.857	-.6545	-.7532	-.7702	-.5209	-.4403	-.2909
.909	-.7092	-.7821	-.7393	-.5953	-.4111	-.2634

ALPHA ( 5 ) = 12.055 BETA ( 3 ) = .165 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/SV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5935	-.6565	-.7391	-.6800	-.5421	-.3638
.757	-.6091	-.6708	-.7514	-.6964	.0000	-.3507
.805	-.6295	-.7369	-.7754	-.6964	-.5238	-.3574
.857	-.6935	-.7612	-.7778	-.5627	-.5020	-.3392
.909	-.7322	-.7904	-.7564	-.5330	-.4609	-.3089



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK56)

ALPHA ( 5 ) = 12.053 BETA ( 4 ) = 4.239 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5899	-.6600	-.7205	-.6259	-.4890	-.3132
.757	-.5868	-.6915	-.7184	-.6451	.0000	-.3099
.805	-.6393	-.7320	-.7398	-.6463	-.4677	-.2938
.887	-.7094	-.7610	-.7334	-.6093	-.4484	-.3073
.958	-.7249	-.7740	-.7084	-.5614	-.4003	-.2922

ALPHA ( 5 ) = 12.101 BETA ( 5 ) = 8.299 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8946

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7136	-.7335	-.7341	-.6534	-.5161	-.3430
.757	-.6930	-.7548	-.7618	-.6774	.0000	-.3432
.805	-.7200	-.7823	-.7678	-.6897	-.5015	-.3378
.887	-.7400	-.7852	-.7279	-.6574	-.5046	-.3396
.958	-.7444	-.7823	-.6918	-.5680	-.4325	-.3234

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK57) ( 13 AUG 75 )

## REFERENCE DATA

SECF = 2090.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0660 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.843 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6035 -.5944 -.5877 -.5841 -.5726 -.5470  
 .757 -.5771 -.5826 -.5898 -.5860 .0000 -.5475  
 .805 -.5729 -.5837 -.5919 -.5865 -.5719 -.5482  
 .857 -.5745 -.5835 -.5933 -.5865 -.5719 -.5436  
 .908 -.5769 -.5863 -.5948 -.5874 -.5709 -.5398

ALPHA ( 2 ) = -3.938 BETA ( 2 ) = .202 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6027 -.5864 -.5815 -.5935 -.5808 -.5595  
 .757 -.5819 -.5857 -.5938 -.5922 .0000 -.5595  
 .805 -.5798 -.5862 -.5977 -.5932 -.5816 -.5591  
 .857 -.5796 -.5839 -.5965 -.5922 -.5804 -.5546  
 .908 -.5810 -.5973 -.5965 -.5898 -.5785 -.5451

ALPHA ( 3 ) = -4.001 BETA ( 3 ) = 4.282 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055

## SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5956 -.5893 -.6074 -.6038 -.5894 -.5572  
 .757 -.5658 -.5938 -.6116 -.6048 .0000 -.5577  
 .805 -.5929 -.5964 -.6145 -.6102 -.5892 -.5558  
 .857 -.5867 -.6034 -.6173 -.6093 -.5866 -.5503  
 .908 -.5914 -.6100 -.6194 -.6033 -.5818 -.5300

## PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 55.000  
 BOXLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = 1.400

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R OR8 SPEED BRAKE

(XEBK57)

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.865 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6127	-.5938	-.5986	-.5969	-.5867	-.5640
.757	-.5996	-.5931	-.6021	-.5988	.0000	-.5640
.805	-.5853	-.5978	-.6031	-.5993	-.5863	-.5645
.857	-.5850	-.5981	-.6021	-.5993	-.5865	-.5505
.909	-.5979	-.6062	-.5974	-.5981	-.5850	-.5545

ALPHA ( 2 ) = .021 BETA ( 2 ) = .195 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6107	-.5939	-.5988	-.5974	-.5877	-.5673
.757	-.5931	-.5932	-.6038	-.6002	.0000	-.5669
.805	-.5895	-.5941	-.6059	-.6012	-.5886	-.5676
.857	-.5875	-.5970	-.6056	-.5990	-.5855	-.5648
.909	-.5939	-.6024	-.6073	-.5957	-.5856	-.5565

ALPHA ( 2 ) = .016 BETA ( 3 ) = 4.262 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6098	-.6013	-.6124	-.6169	-.6030	-.5694
.757	-.5904	-.5993	-.6181	-.6181	.0000	-.5679
.805	-.5935	-.6022	-.6217	-.6181	-.5985	-.5663
.857	-.5933	-.6100	-.6243	-.6155	-.5956	-.5607
.909	-.5977	-.6145	-.6257	-.6131	-.5923	-.5401

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -3.867 MACH = 1.3926 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6143	-.6213	-.6280	-.6292	-.5976	-.5682
.757	-.5930	-.5994	-.6125	-.6104	.0000	-.5673
.805	-.5925	-.6001	-.6151	-.6118	-.5932	-.5680
.857	-.5929	-.6021	-.6184	-.6106	-.5924	-.5644
.909	-.5911	-.6054	-.6184	-.6093	-.5907	-.5597

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 1424/B/C/R ORB SPEED BRAKE

(XEBK57)

ALPHA ( 3 ) = 4.005 BETA ( 2 ) = .197 MACH = 1.3926 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.738 -.6127 -.5954 -.6029 -.6019 -.5913 -.5702  
 .757 -.5939 -.5959 -.6069 -.6045 .0000 -.5714  
 .805 -.5917 -.5974 -.6093 -.6053 -.5939 -.5724  
 .887 -.5931 -.6024 -.6107 -.6034 -.5913 -.5714  
 .969 -.5931 -.6081 -.6105 -.6001 -.5894 -.5643

ALPHA ( 3 ) = 3.907 BETA ( 3 ) = 4.252 MACH = 1.3926 Q = 599.48 P = 441.59 RN/L = 2.9063

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.738 -.6164 -.6036 -.6082 -.6125 -.6002 -.5751  
 .757 -.5981 -.6036 -.6144 -.6148 .0000 -.5756  
 .805 -.5957 -.6031 -.6177 -.6159 -.5978 -.5744  
 .887 -.5963 -.6095 -.6207 -.6132 -.5957 -.5723  
 .958 -.5972 -.6169 -.6205 -.6036 -.5942 -.5579

ALPHA ( 4 ) = 7.945 BETA ( 1 ) = -3.862 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.738 -.6174 -.6095 -.6171 -.6197 -.6097 -.5740  
 .757 -.5985 -.6063 -.6216 -.6216 .0000 -.5723  
 .805 -.5973 -.6077 -.6230 -.6216 -.6047 -.5718  
 .897 -.6013 -.6136 -.6242 -.6208 -.6012 -.5686  
 .969 -.6032 -.6155 -.6253 -.6216 -.5993 -.5631

ALPHA ( 4 ) = 7.917 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.738 -.6189 -.6040 -.6071 -.6085 -.5971 -.5775  
 .757 -.5995 -.6026 -.6123 -.6116 .0000 -.5789  
 .805 -.5978 -.6036 -.6149 -.6125 -.5995 -.5801  
 .897 -.5993 -.6085 -.6161 -.6097 -.5959 -.5769  
 .969 -.6015 -.6141 -.6159 -.6059 -.5950 -.5734

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.848 BETA ( 3 ) = 4.251 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969  
 (XEBK57)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.6167 -.6030 -.6095 -.6083 -.5981 -.5745  
 .757 -.5985 -.6016 -.6121 -.6109 .0000 -.5754  
 .805 -.5976 -.6030 -.6128 -.6125 -.5988 -.5749  
 .887 -.5966 -.6076 -.6137 -.6130 -.5974 -.5742  
 .959 -.5966 -.6094 -.6128 -.6130 -.5962 -.5666

ALPHA ( 5 ) = 11.907 BETA ( 1 ) = -3.847 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.6233 -.6136 -.6218 -.6263 -.6166 -.5830  
 .757 -.6046 -.6121 -.6270 -.6284 .0000 -.5813  
 .805 -.6029 -.6140 -.6289 -.6273 -.6114 -.5806  
 .887 -.6062 -.6198 -.6294 -.6268 -.6071 -.5764  
 .958 -.6100 -.6231 -.6315 -.6268 -.6045 -.5689

ALPHA ( 5 ) = 11.890 BETA ( 2 ) = .186 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.6211 -.6065 -.6109 -.6126 -.6012 -.5814  
 .757 -.6022 -.6060 -.6154 -.6149 .0000 -.5833  
 .805 -.6013 -.6069 -.6178 -.6159 -.6043 -.5849  
 .887 -.6024 -.6122 -.6185 -.6138 -.6019 -.5847  
 .958 -.6020 -.6183 -.6166 -.6102 -.6000 -.5793

ALPHA ( 5 ) = 11.884 BETA ( 3 ) = 4.265 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/ CV

.708 -.6222 -.6088 -.6133 -.6148 -.6044 -.5826  
 .757 -.6045 -.6091 -.6157 -.6164 .0000 -.5838  
 .805 -.6033 -.6098 -.6174 -.6174 -.6063 -.5835  
 .887 -.6017 -.6129 -.6183 -.6162 -.6039 -.5811  
 .959 -.6036 -.6173 -.6164 -.6164 -.6039 -.5752

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK57)

ALPHA (5) = 15.871 BETA (1) = -3.822 MACH = 1.3964 Q = 598.94 P = 438.77 RN/L = 2.9066

SECTION (1) UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

Y-CV

.708	-.6266	-.6253	-.6347	-.6409	-.6314	-.5968
.757	-.6155	-.6263	-.6334	-.6420	.0000	-.5949
.805	-.6136	-.6284	-.6405	-.6423	-.6282	-.5927
.853	-.6227	-.6302	-.6428	-.6409	-.6228	-.5942
.902	-.6255	-.6345	-.6432	-.6411	-.6188	-.5757

ALPHA (6) = 15.883 BETA (2) = .187 MACH = 1.3964 Q = 598.94 P = 438.77 RN/L = 2.9066

SECTION (1) UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

Y-CV

.708	-.6310	-.6165	-.6239	-.6246	-.6125	-.5935
.757	-.6147	-.6161	-.6281	-.6274	.0000	-.5945
.805	-.6121	-.6183	-.6315	-.6277	-.6149	-.5969
.853	-.6121	-.6218	-.6334	-.6251	-.6116	-.5952
.902	-.6124	-.6222	-.6331	-.6229	-.6101	-.5902

ALPHA (6) = 15.915 BETA (3) = 4.292 MACH = 1.3964 Q = 598.94 P = 438.77 RN/L = 2.9066

SECTION (1) UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

Y-CV

.708	-.6311	-.6216	-.6295	-.6277	-.6205	-.5963
.757	-.6157	-.6216	-.6329	-.6291	.0000	-.5956
.805	-.6143	-.6240	-.6329	-.6298	-.6185	-.5958
.853	-.6162	-.6247	-.6339	-.6315	-.6172	-.5989
.902	-.6149	-.6265	-.6329	-.6312	-.6139	-.5749

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# TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-0/310A148) -140A/B/C/R ORB SPEED BRAKE

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(XEBK58) ( 13 AUG 75 ;

## REFERENCE DATA

SPRF = 2530.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.2693 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = 1.250

ALPHA ( 1 ) = -4.015 BETA ( 1 ) = -3.834 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.7203 -.7054 -.7138 -.7079 -.6939 -.6636  
 .757 -.6910 -.7039 -.7157 -.7093 .0000 -.6634  
 .805 -.6919 -.7061 -.7176 -.7098 -.6927 -.6641  
 .837 -.6923 -.7118 -.7169 -.7119 -.6920 -.6623  
 .868 -.6963 -.7174 -.7124 -.7138 -.6920 -.6552

ALPHA ( 2 ) = -4.012 BETA ( 2 ) = .202 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101

SECTION 2 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.7300 -.7071 -.7115 -.7113 -.7020 -.6791  
 .757 -.6955 -.7057 -.7141 -.7129 .0000 -.6779  
 .805 -.7382 -.7066 -.7177 -.7129 -.7030 -.6782  
 .837 -.7000 -.7118 -.7191 -.7039 -.7018 -.6757  
 .868 -.7073 -.7170 -.7174 -.7056 -.7013 -.6716

ALPHA ( 3 ) = -4.007 BETA ( 3 ) = 4.280 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101

SECTION 3 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.7314 -.7117 -.7205 -.7229 -.7075 -.6779  
 .757 -.7055 -.7106 -.7260 -.7246 .0000 -.6770  
 .805 -.6939 -.7125 -.7317 -.7246 -.7049 -.6760  
 .837 -.7030 -.7120 -.7352 -.7205 -.7023 -.6591  
 .868 -.7113 -.7265 -.7157 -.7165 -.7011 -.6559

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## TABULATED PRESSURE DATA - CA148 ( ANES 11-073-1 )

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ANES 11-073(OA148) - 14CA/B/C/R ORB SPEED DRAKE

1XEBX58)

ALPHA ( 2 ) = .035 BETA ( 1 ) = -3.858 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 24 .3170 .4120 .5070 .6020 .6970 .7920

.008	-.7357	-.7149	-.7198	-.7193	-.7087	-.6815
.010	-.7289	-.7139	-.7224	-.7208	.0000	-.6815
.015	-.7201	-.7139	-.7225	-.7217	-.7095	-.6819
.020	-.7120	-.7139	-.7221	-.7193	-.7075	-.6815
.025	-.7045	-.7125	-.7221	-.7125	-.7077	-.6739

ALPHA ( 3 ) = .030 BETA ( 2 ) = .189 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 24 .3170 .4120 .5070 .6020 .6970 .7920

.008	-.7370	-.7125	-.7165	-.7158	-.7075	-.6808
.010	-.7370	-.7110	-.7191	-.7193	.0000	-.6905
.015	-.7303	-.7120	-.7221	-.7200	-.7089	-.6817
.020	-.7256	-.7112	-.7259	-.7165	-.7051	-.6829
.025	-.7189	-.7042	-.7247	-.7113	-.7030	-.6751

ALPHA ( 2 ) = .037 BETA ( 3 ) = 4.251 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 24 .3170 .4120 .5070 .6020 .6970 .7920

.008	-.7345	-.7230	-.7344	-.7394	-.7230	-.6855
.010	-.7146	-.7218	-.7203	-.7246	.0000	-.6843
.015	-.7122	-.7213	-.7253	-.7242	-.7193	-.6817
.020	-.7120	-.7230	-.7252	-.7334	-.7152	-.6917
.025	-.7170	-.7247	-.72512	-.7339	-.7107	-.6882

ALPHA ( 3 ) = 3.922 BETA ( 1 ) = -3.861 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z 24 .3170 .4120 .5070 .6020 .6970 .7920

.008	-.7273	-.7165	-.7159	-.7304	-.7103	-.6552
.010	-.7272	-.7155	-.7204	-.7326	.0000	-.6550
.015	-.7255	-.7159	-.7243	-.7318	-.6991	-.6643
.020	-.7257	-.7255	-.7239	-.7307	-.6946	-.6630
.025	-.7211	-.7250	-.7244	-.7328	-.6923	-.6555



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK58)

ALPHA ( 3 ) = 3.929 E TA ( 2 ) = .192 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7278 -.7105 -.7183 -.7194 -.7074 -.6721  
 .757 -.6990 -.7081 -.7239 -.7235 .0000 -.6714  
 .805 -.7013 -.7084 -.7289 -.7237 -.7060 -.6723  
 .897 -.6989 -.7153 -.7329 -.7204 -.7005 -.6713  
 .958 -.7001 -.7220 -.7353 -.7187 -.6967 -.6635

ALPHA ( 3 ) = 3.933 BETA ( 3 ) = 4.251 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7471 -.7222 -.7298 -.7350 -.7248 -.6864  
 .757 -.7170 -.7217 -.7348 -.7402 .0000 -.6959  
 .805 -.7165 -.7231 -.7398 -.7405 -.7229 -.6883  
 .897 -.7129 -.7284 -.7436 -.7372 -.7168 -.6826  
 .958 -.7184 -.7355 -.7412 -.7336 -.7153 -.6755

ALPHA ( 4 ) = 7.965 BETA ( 1 ) = -3.855 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7255 -.7168 -.7328 -.7343 -.7151 -.6627  
 .757 -.6971 -.7137 -.7376 -.7371 .0000 -.6591  
 .805 -.6988 -.7187 -.7399 -.7376 -.7063 -.6589  
 .897 -.7054 -.7227 -.7425 -.7352 -.7025 -.6540  
 .958 -.7099 -.7250 -.7454 -.7393 -.7030 -.6450

ALPHA ( 4 ) = 7.970 BETA ( 2 ) = .187 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7127 -.7033 -.7181 -.7188 -.7027 -.6573  
 .757 -.6972 -.7033 -.7226 -.7219 .0000 -.6577  
 .805 -.6977 -.7056 -.7268 -.7238 -.6973 -.6587  
 .897 -.6995 -.7100 -.7330 -.7221 -.6899 -.6537  
 .958 -.6928 -.7164 -.7354 -.7217 -.6873 -.6459

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.894 BETA ( 3 ) = 4.250 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105  
(XEBK58)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7278 -.7106 -.7190 -.7196 -.7078 -.6732  
.757 -.7329 -.7073 -.7215 -.7220 .0000 -.6711  
.805 -.7016 -.7066 -.7236 -.7234 -.7066 -.6699  
.887 -.6976 -.7143 -.7253 -.7253 -.7054 -.6700  
.958 -.6999 -.7145 -.7253 -.7260 -.7056 -.6648

ALPHA ( 5 ) = 11.923 BETA ( 1 ) = -3.838 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0114

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7136 -.7039 -.7217 -.7260 -.7087 -.6502  
.757 -.6874 -.7037 -.7279 -.7286 .0000 -.6471  
.805 -.6864 -.7051 -.7331 -.7296 -.6990 -.6438  
.887 -.6954 -.7160 -.7348 -.7274 -.6931 -.6371  
.958 -.7344 -.7210 -.7378 -.7293 -.6914 -.6233

ALPHA ( 5 ) = 11.931 BETA ( 2 ) = .197 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0114

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7119 -.7034 -.7171 -.7235 -.7067 -.6562  
.757 -.6814 -.6934 -.7242 -.7242 .0000 -.6550  
.805 -.6845 -.7025 -.7285 -.7257 -.6972 -.6569  
.887 -.6853 -.7088 -.7335 -.7247 -.6901 -.6507  
.958 -.6935 -.7164 -.7366 -.7233 -.6906 -.6400

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = 4.259 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0114

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7274 -.7104 -.7180 -.7139 -.7068 -.6751  
.757 -.7314 -.7039 -.7233 -.7180 .0000 -.6751  
.805 -.7023 -.7114 -.7225 -.7201 -.7066 -.6746  
.887 -.6963 -.7163 -.7225 -.7213 -.7061 -.6738  
.958 -.6999 -.7165 -.7229 -.7201 -.7071 -.6686

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XE8K59) ( 13 AUG 75 )

## REFERENCE DATA

REF = 2520.0000 SQ.FT. XMRP = 1076.6900 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 REF = 935.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = 1.100

ALPHA ( 1 ) = -4.025 BETA ( 1 ) = -3.831 MACH = 1.1006 Q = 600.08 P = 707.67 RN/L = 3.1805

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.8159 -.8129 -.8344 -.8405 -.8242 -.7598  
 .757 -.7333 -.8067 -.8450 -.8455 .0000 -.7584  
 .825 -.7819 -.8112 -.8550 -.8474 -.8128 -.7555  
 .887 -.7349 -.8305 -.8504 -.8457 -.8088 -.7523  
 .958 -.8055 -.8423 -.8544 -.8445 -.8048 -.7438

ALPHA ( 2 ) = -3.894 BETA ( 2 ) = .203 MACH = 1.1006 Q = 600.08 P = 707.67 RN/L = 3.1805

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.7344 -.7928 -.8131 -.8226 -.8027 -.7361  
 .757 -.7606 -.7895 -.8240 -.8292 .0000 -.7363  
 .805 -.7604 -.7918 -.8330 -.8287 -.7896 -.7330  
 .887 -.7767 -.8079 -.8427 -.8283 -.7837 -.7279  
 .958 -.7880 -.8235 -.8467 -.8254 -.7778 -.7192

ALPHA ( 3 ) = -4.013 BETA ( 3 ) = 4.281 MACH = 1.1006 Q = 600.08 P = 707.67 RN/L = 3.1805

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.8220 -.8109 -.8325 -.8436 -.8237 -.7618  
 .757 -.7934 -.8085 -.8412 -.8476 .0000 -.7604  
 .805 -.7934 -.8130 -.8525 -.8498 -.8169 -.7592  
 .887 -.8040 -.8410 -.8623 -.8474 -.8083 -.7514  
 .958 -.8166 -.8571 -.8554 -.8409 -.8026 -.7341

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK59)

ALPHA ( 2 ) = .051 BETA ( 1 ) = -3.852 MACH = 1.1008 Q = 600.03 P = 707.43 RN/L = 3.1794

SECTION 1 (UPRIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7849	-.7831	-.9083	-.8185	-.7972	-.7248
.757	-.7514	-.7915	-.8195	-.8244	.0000	-.7272
.805	-.7509	-.7843	-.9301	-.8266	-.7853	-.7270
.857	-.7654	-.8002	-.8410	-.8244	-.7732	-.7170
.909	-.7746	-.8146	-.8439	-.8192	-.7718	-.7116

ALPHA ( 2 ) = .053 BETA ( 2 ) = .191 MACH = 1.1008 Q = 600.03 P = 707.43 RN/L = 3.1794

SECTION 1 (UPRIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7710	-.7708	-.7989	-.8043	-.7877	.7122
.757	-.7429	-.7635	-.8055	-.8139	.0000	-.7119
.805	-.7402	-.7689	-.8162	-.8136	-.7728	-.7103
.857	-.7533	-.7651	-.8366	-.8114	-.7657	-.7074
.909	-.7532	-.8014	-.8351	-.8099	-.7593	-.6960

ALPHA ( 2 ) = .049 BETA ( 3 ) = 4.255 MACH = 1.1008 Q = 600.03 P = 707.43 RN/L = 3.1794

SECTION 1 (UPRIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7399	-.7721	-.7934	-.8029	-.7806	-.7105
.757	-.7423	-.7602	-.8017	-.8107	.0000	-.7034
.805	-.7445	-.7637	-.8109	-.8133	-.7738	-.7025
.857	-.7507	-.7695	-.8165	-.8114	-.7678	-.6946
.909	-.7513	-.7655	-.8289	-.8095	-.7577	-.6806

ALPHA ( 3 ) = 3.955 BETA ( 1 ) = -3.853 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

SECTION 1 (UPRIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7804	-.7591	-.7335	-.8073	-.7848	-.7026
.757	-.7407	-.7625	-.8080	-.8118	.0000	-.7028
.805	-.7411	-.7635	-.8213	-.8153	-.7675	-.7040
.857	-.7521	-.7791	-.8299	-.8127	-.7631	-.6992
.909	-.7522	-.8001	-.8357	-.8193	-.7555	-.6900

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0148) -140A/B/C/R ORB SPEED BRAKE

(XEBK59)

ALPHA ( 3 ) = 3.964 BETA ( 2 ) = .193 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7354	-.7357	-.7552	-.7739	-.7540	-.6790
.757	-.7097	-.7340	-.7711	-.7610	.0000	-.6804
.825	-.7102	-.7352	-.7826	-.7798	-.7438	-.6818
.887	-.7163	-.7530	-.7954	-.7786	-.7344	-.6797
.958	-.7252	-.7701	-.8009	-.7786	-.7270	-.6740

ALPHA ( 3 ) = 3.966 BETA ( 3 ) = 4.249 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7595	-.7557	-.7907	-.7973	-.7722	-.6987
.757	-.7356	-.7505	-.7953	-.8023	.0000	-.6970
.825	-.7304	-.7642	-.8027	-.8001	-.7627	-.7009
.887	-.7403	-.7744	-.8186	-.7937	-.7558	-.6944
.958	-.7498	-.7867	-.8243	-.7997	-.7537	-.6764

ALPHA ( 4 ) = 7.908 BETA ( 1 ) = -3.848 MACH = 1.0993 Q = 599.26 P = 708.35 RN/L = 3.1817

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7652	-.7559	-.7925	-.8013	-.7738	-.6962
.757	-.7420	-.7645	-.8031	-.8093	.0000	-.6981
.825	-.7437	-.7763	-.8179	-.8074	-.7519	-.6984
.887	-.7508	-.7872	-.8247	-.8058	-.7495	-.6999
.958	-.7626	-.8002	-.8231	-.8043	-.7408	-.6907

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = .189 MACH = 1.0993 Q = 599.26 P = 708.35 RN/L = 3.1817

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7627	-.7323	-.7598	-.7705	-.7502	-.6720
.757	-.7022	-.7233	-.7737	-.7751	.0000	-.6598
.825	-.7015	-.7342	-.7834	-.7775	-.7350	-.6746
.887	-.7112	-.7498	-.7939	-.7781	-.7295	-.6645
.958	-.7225	-.7593	-.7991	-.7711	-.7270	-.6593

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK59)  
 ALPHA ( 1 ) = 7.911 BETA ( 3 ) = 4.247 MACH = 1.0993 Q = 599.26 P = 708.35 RN/L = 3.1817

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	B	3170	4120	5070	6020	6970	7920
1.02	-7.482	-7.522	-7.744	-7.960	-7.651	-6.965	
1.04	-7.231	-7.493	-7.622	-7.917	.0000	-6.977	
1.06	-7.215	-7.546	-7.934	-7.959	-7.575	-6.980	
1.08	-7.222	-7.595	-8.240	-7.991	-7.528	-6.906	
1.10	-7.455	-7.755	-8.381	-7.936	-7.559	-6.760	
ALPHA ( 5 ) = 11.953	BETA ( 1 ) = -3.832	MACH = 1.0972	Q = 598.33	P = 710.00	RN/L = 3.1878		

SECTION 2 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	B	3170	4120	5070	6020	6970	7920
1.02	-7.575	-7.642	-7.955	-7.975	-7.622	-6.858	
1.04	-7.448	-7.570	-8.067	-8.037	.0000	-6.846	
1.06	-7.271	-7.770	-8.123	-8.111	-7.541	-6.806	
1.08	-7.597	-7.932	-8.174	-7.982	-7.411	-6.787	
1.10	-7.754	-8.027	-8.215	-7.977	-7.330	-6.563	
ALPHA ( 5 ) = 11.972	BETA ( 2 ) = .197	MACH = 1.0972	Q = 598.33	P = 710.00	RN/L = 3.1878		

SECTION 3 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	B	3170	4120	5070	6020	6970	7920
1.02	-7.599	-7.620	-7.921	-8.020	-7.787	-6.989	
1.04	-7.327	-7.571	-7.937	-8.074	.0000	-6.983	
1.06	-7.334	-7.630	-8.022	-8.079	-7.848	-6.965	
1.08	-7.445	-7.801	-8.171	-8.077	-7.579	-6.977	
1.10	-7.522	-7.899	-8.239	-8.084	-7.529	-6.813	
ALPHA ( 5 ) = 11.895	BETA ( 3 ) = 4.258	MACH = 1.0972	Q = 598.33	P = 710.00	RN/L = 3.1878		

SECTION 4 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z	B	3170	4120	5070	6020	6970	7920
1.02	-7.598	-7.519	-7.704	-7.794	-7.675	-6.986	
1.04	-7.328	-7.575	-7.776	-7.870	.0000	-6.996	
1.06	-7.253	-7.555	-7.853	-7.960	-7.559	-6.955	
1.08	-7.336	-7.615	-7.916	-7.894	-7.500	-6.979	
1.10	-7.420	-7.720	-7.960	-7.870	-7.524	-6.831	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-0.3(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK60) ( 13 AUG 75 )

# REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.841 MACH = .89803 0 = 598.77 P = 1060.7 RN/L = 3.5631

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -5.145 -5.5436 -5.834 -6.052 -5.822 -4.965  
 .757 -5.211 -5.439 -5.607 -5.8259 .0000 -4.939  
 .805 -5.166 -5.333 -5.6248 -6.182 -5.723 -4.944  
 .887 -5.450 -5.347 -6.333 -6.180 -5.661 -4.852  
 .959 -5.575 -5.684 -6.430 -6.130 -5.659 -4.705

ALPHA ( 2 ) = -4.026 BETA ( 2 ) = .202 MACH = .89803 0 = 598.77 P = 1060.7 RN/L = 3.5631

SECTION ( 2 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -4.448 -4.779 -5.086 -5.292 -5.111 -4.471  
 .757 -4.552 -4.759 -5.258 -5.405 .0000 -4.440  
 .805 -4.544 -4.801 -5.349 -5.372 -5.071 -4.369  
 .887 -4.756 -5.127 -5.514 -5.545 -5.005 -4.355  
 .959 -4.919 -5.324 -5.571 -5.351 -5.014 -4.227

ALPHA ( 3 ) = -3.984 BETA ( 3 ) = 4.285 MACH = .89803 0 = 598.77 P = 1060.7 RN/L = 3.5631

SECTION ( 3 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.728 -4.353 -4.649 -5.017 -5.228 -4.963 -4.079  
 .757 -4.351 -4.637 -5.107 -5.176 .0000 -4.089  
 .805 -4.452 -4.622 -5.353 -5.266 -4.837 -4.044  
 .887 -4.739 -5.193 -5.548 -5.249 -4.823 -4.049  
 .959 -4.935 -5.343 -5.558 -5.239 -4.733 -3.993

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = .900

DATE 11-03-76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK60)

ALPHA ( 2 ) = .055 BETA ( 1 ) = -3.856 MACH = .89813 0 = 598.75 P = 1060.5 RN/L = 3.5631

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5377 -.5525 -.6088 -.6291 -.6050 -.4985  
 .757 -.5334 -.5592 -.6312 -.6390 .0000 -.4954  
 .805 -.5374 -.5743 -.6584 -.6438 -.5837 -.4872  
 .887 -.5509 -.6165 -.6823 -.6419 -.5745 -.4801  
 .958 -.5826 -.6338 -.6844 -.6319 -.5771 -.4687

ALPHA ( 2 ) = .055 BETA ( 2 ) = .186 MACH = .89813 0 = 598.75 P = 1060.5 RN/L = 3.5631

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4681 -.4898 -.5276 -.5560 -.5423 -.4574  
 .757 -.4669 -.4881 -.5456 -.5814 .0000 -.4541  
 .805 -.4775 -.5019 -.5629 -.5692 -.5267 -.4536  
 .887 -.4957 -.5321 -.5687 -.5673 -.5186 -.4501  
 .958 -.5027 -.5557 -.5667 -.5650 -.5170 -.4450

ALPHA ( 2 ) = .048 BETA ( 3 ) = 4.260 MACH = .89813 0 = 598.75 P = 1060.5 RN/L = 3.5631

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4484 -.4923 -.5222 -.5403 -.5137 -.4191  
 .757 -.4515 -.4785 -.5383 -.5445 .0000 -.4148  
 .805 -.4675 -.5022 -.5651 -.5570 -.4975 -.4136  
 .887 -.4842 -.5263 -.5920 -.5618 -.4857 -.4145  
 .958 -.5116 -.5559 -.5733 -.5454 -.4885 -.3967

ALPHA ( 2 ) = 3.975 BETA ( 1 ) = -3.861 MACH = .89723 0 = 597.99 P = 1061.2 RN/L = 3.5607

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5466 -.5741 -.6362 -.6440 -.6016 -.4696  
 .757 -.5374 -.5770 -.6540 -.6476 .0000 -.4696  
 .805 -.5497 -.5931 -.6739 -.6590 -.5824 -.4696  
 .887 -.5651 -.6319 -.6730 -.6500 -.5670 -.4512  
 .958 -.5853 -.6515 -.6859 -.6474 -.5689 -.4455



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TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

PAGE 6431

AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK60)

ALPHA ( 3 ) = 4.019 BETA ( 2 ) = .193 MACH = .89723 Q = 597.99 P = 1061.2 RN/L = 3.5607

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4695	-.4994	-.5321	-.5631	-.5472	-.4663
.757	-.4743	-.4973	-.5598	-.5769	.0000	-.4594
.805	-.4795	-.5141	-.5725	-.5869	-.5273	-.4604
.857	-.4987	-.5377	-.5855	-.5924	-.5214	-.4450
.909	-.5284	-.5697	-.6055	-.5755	-.5290	-.4453

ALPHA ( 3 ) = 3.944 BETA ( 3 ) = 4.252 MACH = .89723 Q = 597.99 P = 1061.2 RN/L = 3.5607

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4640	-.4938	-.5502	-.5642	-.5284	-.4060
.757	-.4640	-.4935	-.5683	-.5504	.0000	-.4036
.805	-.4705	-.5028	-.5685	-.5650	-.5035	-.3993
.857	-.4810	-.5459	-.6013	-.5768	-.5016	-.3983
.909	-.5235	-.5801	-.6124	-.5552	-.4933	-.3884

ALPHA ( 4 ) = 8.020 BETA ( 1 ) = -3.657 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5602	-.5917	-.6557	-.6484	-.5863	-.4576
.757	-.5557	-.5922	-.6510	-.6503	.0000	-.4524
.805	-.5642	-.6105	-.6826	-.6858	-.5799	-.4398
.857	-.5732	-.6441	-.7037	-.6815	-.5569	-.4252
.909	-.5959	-.6640	-.7037	-.6468	-.5681	-.4259

ALPHA ( 4 ) = 8.028 BETA ( 2 ) = .194 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5921	-.6157	-.6632	-.6917	-.5630	-.4649
.757	-.5959	-.6254	-.6779	-.6929	.0000	-.4651
.805	-.6028	-.6330	-.6929	-.6815	-.5500	-.4640
.857	-.6259	-.6697	-.7000	-.6700	-.5423	-.4540
.909	-.6309	-.6927	-.7046	-.5981	-.5385	-.4460

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ABSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6432

ALPHA ( 1 ) = 8.024 BETA ( 3 ) = 4.248 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654 (XEBK50)

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

K/CV

.708	-.4558	-.5295	-.5775	-.6005	-.5692	-.4206
.757	-.4327	-.5209	-.6117	-.6148	-.6000	-.4073
.805	-.4010	-.5408	-.6344	-.6193	-.5720	-.3969
.853	-.3619	-.5152	-.6622	-.6209	-.5140	-.3923
.901	-.3150	-.4632	-.6615	-.6069	-.5085	-.3823

ALPHA ( 2 ) = 11.318 BETA ( 1 ) = -3.839 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

K/CV

.708	-.5739	-.6140	-.6916	-.6508	-.5723	-.4434
.757	-.5479	-.6176	-.6844	-.6633	-.6000	-.4363
.805	-.5153	-.6357	-.6986	-.6659	-.5579	-.4335
.853	-.4799	-.6500	-.7253	-.6812	-.5491	-.4264
.901	-.4315	-.6533	-.7089	-.6588	-.5432	-.4105

ALPHA ( 3 ) = 11.929 BETA ( 2 ) = .180 MACH = .89953 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

K/CV

.708	-.5192	-.5593	-.6243	-.6322	-.5956	-.4716
.757	-.4931	-.5335	-.6549	-.6416	-.6000	-.4692
.805	-.4613	-.5580	-.6595	-.6521	-.5691	-.4633
.853	-.4253	-.5600	-.6779	-.6447	-.5551	-.4523
.901	-.3742	-.5461	-.6524	-.6402	-.5548	-.4490

ALPHA ( 4 ) = 11.915 BETA ( 3 ) = 4.268 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

K/CV

.708	-.5323	-.5703	-.6115	-.6511	-.5826	-.4528
.757	-.5059	-.5443	-.6285	-.6444	-.6000	-.4434
.805	-.4743	-.5709	-.6712	-.6322	-.5728	-.4407
.853	-.4343	-.5656	-.7013	-.6423	-.5534	-.4097
.901	-.3818	-.5472	-.6716	-.6455	-.5455	-.4083

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(XEBK61) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

REFERENCE DATA

SREF = 2020.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 935.0000 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0000

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 55.000  
BOFLAP = 16.300 L-ELVN = 4.000  
R-ELVN = -4.000 MACH = .600

ALPHA ( 1 ) = -4.014 BETA ( 1 ) = -7.854 MACH = .59638 0 = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CO						
.708	-.6881	-.7095	-.7516	-.6670	-.5576	-.3832
.757	-.6411	-.7090	-.7504	-.6770	.0000	-.3653
.805	-.6371	-.7402	-.7656	-.6753	-.5195	-.3634
.857	-.6421	-.7551	-.7685	-.6792	-.5209	-.3544
.908	-.6665	-.7735	-.7749	-.6995	-.5605	-.3798

ALPHA ( 2 ) = -3.998 BETA ( 2 ) = -3.932 MACH = .59538 0 = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CO						
.708	-.5650	-.6288	-.6732	-.6406	-.5657	-.4148
.757	-.5600	-.6091	-.6288	-.6511	.0000	-.4041
.805	-.5636	-.6374	-.6594	-.6518	-.5329	-.3936
.857	-.5772	-.6690	-.7146	-.6473	-.5206	-.3768
.908	-.5993	-.6782	-.7153	-.6492	-.5389	-.3704

ALPHA ( 3 ) = -3.980 BETA ( 3 ) = .201 MACH = .59638 0 = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CO						
.708	-.6109	-.6205	-.6246	-.6265	-.5441	-.3951
.757	-.6368	-.6557	-.6562	-.6215	.0000	-.3937
.805	-.6282	-.6527	-.6637	-.6138	-.5153	-.3883
.857	-.6428	-.6575	-.6674	-.6089	-.5020	-.3783
.908	-.6702	-.6678	-.6709	-.5993	-.5056	-.3559

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TABLE 1. DED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

(XEBK61)

AMES II-07310A(48) -140A/B/C/R ORB SPEED BRAKE

BETA (4) = 9.282 MACH = .59638 Q = 579.21 P = 2386.5 PS/L = 4.6411

DEPENDENT VARIABLE CP

[illegible][illegible][illegible]

Year	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

**SECRET**

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DEPENDENT VARIABLE

[illegible]

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[illegible]

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1. The first part of the document is a list of names and titles, including "J. Edgar Hoover", "Director", "Federal Bureau of Investigation", "U. S. Department of Justice", "Washington, D. C.", "March 1, 1954", "Dear Sir:", "Re: [illegible]", "Enclosed for you are two copies of a letterhead memorandum dated and captioned as above.", "Very truly yours,", "J. Edgar Hoover", "Director".

DEPENDENT VARIABLE

[illegible][illegible][illegible][illegible][illegible]

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**Bureau**

DEC 1 1963

Year	1980	1981	1982	1983	1984	1985
1980	100.0	100.0	100.0	100.0	100.0	100.0
1981	100.0	100.0	100.0	100.0	100.0	100.0
1982	100.0	100.0	100.0	100.0	100.0	100.0
1983	100.0	100.0	100.0	100.0	100.0	100.0
1984	100.0	100.0	100.0	100.0	100.0	100.0
1985	100.0	100.0	100.0	100.0	100.0	100.0

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DATE 14 FEB 75

INSULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 0435

AMES 11-07310A148) -140A/B/C/R OR8 SPEED BRAKE

(XEBK61)

SECTION 1 (RIGHT HAND INSIDE) BETA (3) = .105 MACH = .189 MACH / Q = 593.85 P = 2385.1 RN/L = 4.8452

DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

M/CV

709 -5.54 -5.93 -6.33 -6.72 -7.11 -7.50  
757 -5.19 -5.57 -5.96 -6.35 -6.74 -7.13  
805 -5.82 -6.20 -6.58 -6.97 -7.35 -7.74  
853 -5.25 -5.63 -6.01 -6.39 -6.77 -7.15  
901 -5.87 -6.25 -6.63 -7.01 -7.39 -7.77  
949 -5.15 -5.53 -5.91 -6.29 -6.67 -7.05

ALPHA (2) = .09 BETA (4) = 4.264 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

M/CV

709 -5.37 -5.75 -6.13 -6.51 -6.89 -7.27  
757 -5.02 -5.40 -5.78 -6.16 -6.54 -6.92  
805 -5.65 -6.03 -6.41 -6.79 -7.17 -7.55  
853 -5.08 -5.46 -5.84 -6.22 -6.60 -6.98  
901 -5.70 -6.08 -6.46 -6.84 -7.22 -7.60  
949 -5.00 -5.38 -5.76 -6.14 -6.52 -6.90

ALPHA (2) = .09 BETA (5) = 8.317 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

M/CV

709 -5.40 -5.78 -6.16 -6.54 -6.92 -7.30  
757 -5.05 -5.43 -5.81 -6.19 -6.57 -6.95  
805 -5.68 -6.06 -6.44 -6.82 -7.20 -7.58  
853 -5.11 -5.49 -5.87 -6.25 -6.63 -7.01  
901 -5.73 -6.11 -6.49 -6.87 -7.25 -7.63  
949 -5.03 -5.41 -5.79 -6.17 -6.55 -6.93

ALPHA (3) = 4.024 BETA (1) = 7.901 MACH = .59706 Q = 595.26 P = 2385.4 RN/L = 4.8521

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV 3170 .4120 .5070 .6020 .6970 .7920

M/CV

709 -5.45 -5.83 -6.21 -6.59 -6.97 -7.35  
757 -5.10 -5.48 -5.86 -6.24 -6.62 -7.00  
805 -5.73 -6.11 -6.49 -6.87 -7.25 -7.63  
853 -5.16 -5.54 -5.92 -6.30 -6.68 -7.06  
901 -5.78 -6.16 -6.54 -6.92 -7.30 -7.68  
949 -5.08 -5.46 -5.84 -6.22 -6.60 -6.98



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ALPHA ( 4 ) = 8.028 BETA ( 1 ) = -7.097 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534  
(XEBK61)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7031 -.7273 -.7483 -.6390 -.4902 -.3312  
.757 -.6650 -.7339 -.7601 -.6514 .0000 -.3215  
.805 -.6697 -.7638 -.7715 -.6549 -.4916 -.3260  
.857 -.6831 -.7842 -.7547 -.6587 -.5073 -.3388  
.908 -.7405 -.7664 -.7445 -.6734 -.5118 -.3374

ALPHA ( 4 ) = 8.037 BETA ( 2 ) = -3.847 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6012 -.6398 -.6952 -.6316 -.5286 -.3597  
.757 -.5798 -.6424 -.7165 -.6539 .0000 -.3500  
.805 -.5314 -.6621 -.7175 -.6572 -.4999 -.3398  
.857 -.5344 -.5967 -.7291 -.6565 -.5069 -.3491  
.908 -.6179 -.7139 -.7293 -.6454 -.5391 -.3724

ALPHA ( 4 ) = 8.042 BETA ( 3 ) = .195 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5852 -.6267 -.7052 -.6604 -.5833 -.4005  
.757 -.5593 -.6262 -.7144 -.6727 .0000 -.3911  
.805 -.5780 -.6541 -.7263 -.6831 -.5445 -.3775  
.857 -.6020 -.6547 -.7345 -.6695 -.5300 -.3710  
.908 -.6311 -.7272 -.7457 -.6711 -.5371 -.3611

ALPHA ( 4 ) = 7.960 BETA ( 4 ) = 4.251 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5746 -.6193 -.6993 -.6395 -.4832 -.2985  
.757 -.5505 -.6243 -.7345 -.6464 .0000 -.2855  
.805 -.5718 -.6562 -.7536 -.6336 -.4548 -.2928  
.857 -.5994 -.7164 -.7762 -.6348 -.4479 -.2941  
.908 -.5409 -.7508 -.7634 -.6217 -.4555 -.3052

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DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6438

AXES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK61)

ALPHA ( 4 ) = 7.955 BETA ( 5 ) = 8.305 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6343	-.6714	-.7905	-.6515	-.4432	-.2301
.757	-.5185	-.6889	-.9181	-.6840	.0000	-.2481
.805	-.6310	-.7518	-.8398	-.6496	-.3996	-.2369
.853	-.6917	-.8178	-.8611	-.6122	-.3636	-.2429
.901	-.7351	-.8923	-.8473	-.5722	-.3406	-.2522

ALPHA ( 5 ) = 11.943 BETA ( 1 ) = -7.853 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7173	-.7452	-.7384	-.6569	-.5069	-.3656
.757	-.6543	-.7593	-.7894	-.6656	.0000	-.3464
.805	-.6337	-.7903	-.7718	-.6642	-.5128	-.3355
.853	-.6235	-.7949	-.7457	-.6979	-.5519	-.3417
.901	-.7346	-.7775	-.7362	-.6759	-.5799	-.3715

ALPHA ( 5 ) = 11.962 BETA ( 2 ) = -3.827 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6064	-.6547	-.7044	-.6369	-.5182	-.3427
.757	-.5842	-.6521	-.7187	-.6426	.0000	-.3381
.805	-.5842	-.6928	-.7431	-.6547	-.5008	-.3429
.853	-.6069	-.7037	-.7517	-.6409	-.5099	-.3348
.901	-.6245	-.7245	-.7594	-.6473	-.5037	-.3473

ALPHA ( 5 ) = 11.987 BETA ( 3 ) = .197 MACH = .59444 P = 2386.0 RN/L = 4.8439

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6013	-.6411	-.7059	-.6755	-.5781	-.3873
.757	-.5922	-.6345	-.7325	-.6971	.0000	-.3909
.805	-.5976	-.6582	-.7539	-.6876	-.5444	-.3833
.853	-.6160	-.6950	-.7649	-.6769	-.5236	-.3595
.901	-.6266	-.7162	-.7743	-.6976	-.5396	-.3677



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6439

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK61)

ALPHA ( 5 ) = 11.953 BETA ( 4 ) = 4.259 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5728	-.6234	-.6933	-.6463	-.5279	-.3400
.757	-.5638	-.6309	-.7360	-.6786	.0000	-.3264
.805	-.5683	-.6631	-.7517	-.6688	-.4858	-.3338
.887	-.5954	-.6983	-.7612	-.6582	-.4726	-.3149
.968	-.6311	-.7508	-.7769	-.6442	-.4909	-.3128

ALPHA ( 5 ) = 11.951 BETA ( 5 ) = 8.316 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6276	-.6742	-.7972	-.6751	-.4569	-.2454
.757	-.6283	-.6979	-.8258	-.6957	.0000	-.2494
.805	-.6316	-.7516	-.8493	-.6618	-.4031	-.2364
.887	-.6848	-.8333	-.8659	-.6141	-.3777	-.2281
.968	-.7530	-.9100	-.8560	-.5579	-.3556	-.2196

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 5440

AMES 11-073:0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK62) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.059 BETA ( 1 ) = -3.849 MACH = 1.3925 Q = 599.99 P = 442.06 RN/L = 2.9210

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6038 -.5920 -.6047 -.6031 -.5865 -.5501  
 .757 -.5916 -.5918 -.6083 -.6052 .0000 -.5496  
 .805 -.5816 -.5941 -.6104 -.6055 -.5830 -.5508  
 .857 -.5928 -.5991 -.6135 -.6059 -.5813 -.5453  
 .909 -.5844 -.5914 -.6044 -.6050 -.5799 -.5389

ALPHA ( 2 ) = -3.922 BETA ( 2 ) = .195 MACH = 1.3925 Q = 599.99 P = 442.06 RN/L = 2.9210

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6010 -.5911 -.6025 -.6049 -.5893 -.5521  
 .757 -.5916 -.5938 -.6082 -.6055 .0000 -.5502  
 .805 -.5797 -.5939 -.6127 -.6059 -.5843 -.5484  
 .857 -.5928 -.6013 -.6159 -.6021 -.5822 -.5394  
 .909 -.5832 -.5934 -.6054 -.6053 -.5795 -.5259

ALPHA ( 3 ) = -2.930 BETA ( 3 ) = 4.260 MACH = 1.3925 Q = 599.99 P = 442.06 RN/L = 2.9210

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6106 -.5939 -.6130 -.6180 -.5965 -.5497  
 .757 -.5951 -.5909 -.6173 -.6201 .0000 -.5495  
 .805 -.5847 -.5942 -.6042 -.6197 -.6013 -.5495  
 .857 -.5823 -.5924 -.6022 -.6180 -.5849 -.5445  
 .909 -.5756 -.5816 -.6038 -.6159 -.5738 -.5229

## PARAMETRIC DATA

RUDDER = 5.000 SPOBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.400

DATE 14 FEB 76

## TABULATED PRESSURE DATA - 00148 ( AMES 11-073-1 )

PAGE 6441

AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK62)

ALPHA ( 2 ) = .024 BETA ( 1 ) = -3.867 MACH = 1.3922 Q = 599.78 P = 442.06 RN/L = 2.9172

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6147	-.6015	-.6102	-.6118	-.5964	-.5638
.757	-.5939	-.6015	-.6151	-.6140	.0000	-.5631
.805	-.5937	-.6031	-.6177	-.6154	-.5950	-.5626
.853	-.5939	-.6059	-.6203	-.6140	-.5934	-.5580
.901	-.5934	-.6101	-.6203	-.6121	-.5922	-.5495

ALPHA ( 2 ) = .029 BETA ( 2 ) = .185 MACH = 1.3922 Q = 599.78 P = 442.06 RN/L = 2.9172

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6090	-.5991	-.6111	-.6146	-.5990	-.5613
.757	-.5934	-.5991	-.6170	-.6165	.0000	-.5594
.805	-.5932	-.6017	-.6205	-.6163	-.5945	-.5572
.853	-.5917	-.6113	-.6241	-.6130	-.5918	-.5518
.901	-.5972	-.6165	-.6234	-.6092	-.5904	-.5378

ALPHA ( 2 ) = .025 BETA ( 3 ) = 4.257 MACH = 1.3922 Q = 599.78 P = 442.06 RN/L = 2.9172

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6162	-.6055	-.6109	-.6264	-.6389	-.5649
.757	-.5985	-.6066	-.6247	-.6278	.0000	-.5635
.805	-.5997	-.6103	-.6266	-.6285	-.6030	-.5616
.853	-.6044	-.6195	-.6330	-.6264	-.5973	-.5550
.901	-.6072	-.6229	-.6321	-.6257	-.5904	-.5365

ALPHA ( 3 ) = 3.958 BETA ( 1 ) = -3.867 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9169

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6161	-.6076	-.6219	-.6283	-.6136	-.5710
.757	-.6055	-.6076	-.6283	-.6302	.0000	-.5703
.805	-.6062	-.6109	-.6323	-.6304	-.6057	-.5694
.853	-.6010	-.6196	-.6349	-.6285	-.6022	-.5534
.901	-.6054	-.6234	-.6363	-.6251	-.5987	-.5530

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6442

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK62)

ALPHA ( 3 ) = 3.558 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9189

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5159	-.6052	-.6169	-.6214	-.6069	-.5707
.757	-.5952	-.6250	-.6226	-.6233	.0000	-.5683
.805	-.5950	-.6076	-.6261	-.6230	-.6024	-.5667
.853	-.5934	-.6160	-.6292	-.6204	-.5998	-.5610
.901	-.6026	-.6219	-.6295	-.6159	-.5982	-.5472

ALPHA ( 3 ) = 3.553 BETA ( 2 ) = .4246 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9189

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6154	-.6052	-.6191	-.6276	-.6131	-.5724
.757	-.5951	-.6050	-.6252	-.6295	.0000	-.5701
.805	-.5949	-.6097	-.6283	-.6283	-.6058	-.5682
.853	-.5739	-.6219	-.6322	-.6362	-.6034	-.5636
.901	-.6055	-.6278	-.6337	-.6228	-.6001	-.5449

ALPHA ( 3 ) = 3.527 BETA ( 2 ) = -.3865 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9182

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6238	-.6146	-.6267	-.6349	-.6226	-.5850
.757	-.6031	-.6151	-.6321	-.6366	.0000	-.5831
.805	-.6061	-.6186	-.6352	-.6366	-.6172	-.5814
.853	-.6110	-.6272	-.6366	-.6361	-.6129	-.5767
.901	-.6151	-.6311	-.6390	-.6352	-.6075	-.5670

ALPHA ( 3 ) = 3.532 BETA ( 2 ) = .179 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9182

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6133	-.6029	-.6179	-.6243	-.6120	-.5770
.757	-.6004	-.6097	-.6239	-.6265	.0000	-.5746
.805	-.6024	-.6110	-.6274	-.6262	-.6075	-.5732
.853	-.6018	-.6159	-.6305	-.6239	-.6054	-.5684
.901	-.6059	-.6224	-.6307	-.6196	-.6037	-.5585

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 6443

AMES 11-073(OA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK62)

ALPHA ( 4 ) = 7.933 BETA ( 3 ) = 4.245 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9199

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6236 -.6113 -.6194 -.6241 -.6135 -.5778  
 .757 -.6037 -.5108 -.6234 -.6265 .0000 -.5773  
 .805 -.5040 -.6113 -.6263 -.6284 -.6099 -.5761  
 .887 -.6030 -.5177 -.6289 -.6285 -.6073 -.5739  
 .969 -.6044 -.6227 -.6295 -.6251 -.6057 -.5532

ALPHA ( 5 ) = 11.912 BETA ( 1 ) = -3.854 MACH = 1.3916 Q = 599.87 P = 442.53 RN/L = 2.9199

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6342 -.6154 -.6281 -.6352 -.6260 -.5895  
 .757 -.6085 -.6171 -.6328 -.6376 .0000 -.5890  
 .805 -.6289 -.6204 -.6352 -.6376 -.6210 -.5867  
 .887 -.6126 -.6272 -.6356 -.6371 -.6165 -.5801  
 .969 -.6164 -.6310 -.6378 -.6348 -.6120 -.5704

ALPHA ( 5 ) = 11.921 BETA ( 2 ) = .184 MACH = 1.3916 Q = 599.87 P = 442.53 RN/L = 2.9199

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.702 -.6235 -.6125 -.6231 -.6283 -.6169 -.5831  
 .757 -.6034 -.6134 -.6271 -.6306 .0000 -.5826  
 .805 -.6035 -.6146 -.6304 -.6320 -.6136 -.5819  
 .887 -.6063 -.6241 -.6339 -.6301 -.6115 -.5795  
 .969 -.6099 -.6235 -.6346 -.6254 -.6096 -.5724

ALPHA ( 5 ) = 11.313 BETA ( 3 ) = 4.258 MACH = 1.3916 Q = 599.87 P = 442.53 RN/L = 2.9199

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6287 -.6161 -.6249 -.6277 -.6187 -.5870  
 .757 -.6037 -.6159 -.6275 -.6306 .0000 -.5860  
 .805 -.6107 -.6175 -.6306 -.6315 -.6164 -.5860  
 .887 -.6100 -.6228 -.6334 -.6315 -.6142 -.5817  
 .969 -.6104 -.6270 -.6341 -.6301 -.6135 -.5718

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TAECULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6444

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK62)

ALPHA ( 5 ) = 15.912 BETA ( 1 ) = -3.830 MACH = 1.3897 Q = 599.83 P = 443.71 RN/L = 2.9243

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6378 -.6293 -.6407 -.6466 -.6362 -.6004  
 .757 -.6236 -.6311 -.6471 -.6478 -.6000 -.5997  
 .805 -.6259 -.6349 -.6478 -.6481 -.6315 -.5976  
 .857 -.6271 -.6414 -.6492 -.6483 -.6265 -.5928  
 .909 -.6302 -.6457 -.6532 -.6457 -.6206 -.5819

ALPHA ( 6 ) = 15.924 BETA ( 2 ) = .184 MACH = 1.3897 Q = 599.83 P = 443.71 RN/L = 2.9243

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6311 -.6223 -.6320 -.6374 -.6251 -.5929  
 .757 -.6138 -.6216 -.6379 -.6393 -.6000 -.5906  
 .805 -.6135 -.6254 -.6398 -.6393 -.6213 -.5903  
 .857 -.6183 -.6318 -.6434 -.6393 -.6199 -.5868  
 .909 -.6211 -.6377 -.6436 -.6344 -.6180 -.5783

ALPHA ( 5 ) = 15.912 BETA ( 3 ) = 4.288 MACH = 1.3897 Q = 599.83 P = 443.71 RN/L = 2.9243

SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/COV

.708 -.6328 -.6250 -.6357 -.6407 -.6231 -.5957  
 .757 -.6170 -.6253 -.6397 -.6350 -.6000 -.5947  
 .805 -.6182 -.6274 -.6402 -.6352 -.6196 -.5933  
 .857 -.6203 -.6301 -.6399 -.6362 -.6198 -.5970  
 .909 -.6215 -.6339 -.6407 -.6373 -.6184 -.5752

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK63) ( 13 AUG 75 )

## REFERENCE DATA

ORF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 ORF = 474.8000 IN. YMRP = .0000 IN. Y0  
 ORF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.250

ALPHA ( 1 ) = -4.050 BETA ( 1 ) = -3.840 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/C/

.739 -.7326 -.7187 -.7329 -.7348 -.7170 -.6587  
 .757 -.7033 -.7168 -.7383 -.7393 .0000 -.6675  
 .835 -.7023 -.7187 -.7426 -.7393 -.7128 -.6682  
 .897 -.7028 -.7278 -.7457 -.7383 -.7097 -.6656  
 .959 -.7052 -.7349 -.7478 -.7357 -.7054 -.6545

ALPHA ( 1 ) = -3.916 BETA ( 2 ) = .196 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/C/

.739 -.7252 -.7151 -.7336 -.7369 -.7170 -.6651  
 .757 -.6985 -.7141 -.7409 -.7397 .0000 -.6642  
 .835 -.6966 -.7191 -.7447 -.7397 -.7075 -.6625  
 .897 -.7047 -.7324 -.7504 -.7359 -.7030 -.6573  
 .959 -.7120 -.7414 -.7515 -.7317 -.6980 -.6447

ALPHA ( 1 ) = -3.923 BETA ( 3 ) = 4.275 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

## SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/C/

.739 -.7464 -.7269 -.7431 -.7507 -.7261 -.6685  
 .757 -.7234 -.7281 -.7482 -.7543 .0000 -.6700  
 .835 -.7220 -.7300 -.7502 -.7545 -.7209 -.6723  
 .897 -.7239 -.7394 -.7559 -.7528 -.7078 -.6680  
 .959 -.7303 -.7433 -.7537 -.7533 -.6925 -.6401

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .044 BETA ( 1 ) = -3.854 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238  
(XE8K63)

SECTION / UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.7299 -.7284 -.7445 -.7490 -.7320 -.6782  
.757 -.7113 -.7267 -.7509 -.7538 .0000 -.6777  
.805 -.7103 -.7235 -.7559 -.7547 -.7258 -.6786  
.897 -.7140 -.7402 -.7623 -.7531 -.7204 -.6772  
.959 -.7185 -.7489 -.7645 -.7476 -.7125 -.6684

ALPHA ( 2 ) = .050 BETA ( 2 ) = .180 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238

SECTION / UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.7339 -.7223 -.7413 -.7456 -.7255 -.6731  
.757 -.7073 -.7238 -.7473 -.7487 .0000 -.6719  
.805 -.7062 -.7281 -.7519 -.7475 -.7181 -.6684  
.897 -.7165 -.7377 -.7560 -.7463 -.7120 -.6622  
.959 -.7226 -.7434 -.7592 -.7442 -.7056 -.6510

ALPHA ( 2 ) = .043 BETA ( 3 ) = 4.255 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238

SECTION / UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CF

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.7446 -.7287 -.7439 -.7551 -.7359 -.6772  
.757 -.7073 -.7292 -.7511 -.7566 .0000 -.6767  
.805 -.7112 -.7316 -.7554 -.7595 -.7269 -.6762  
.897 -.7264 -.7431 -.7606 -.7563 -.7208 -.6705  
.959 -.7300 -.7492 -.7642 -.7554 -.7118 -.6439

ALPHA ( 2 ) = .040 BETA ( 4 ) = -3.854 MACH = 1.2448 Q = 599.34 P = 552.51 RN/L = 3.0213

SECTION / UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.7446 -.7309 -.7495 -.7564 -.7391 -.6805  
.757 -.7073 -.7316 -.7552 -.7604 .0000 -.6759  
.805 -.7112 -.7309 -.7507 -.7616 -.7303 -.6774  
.897 -.7264 -.7495 -.7630 -.7602 -.7239 -.6693  
.959 -.7300 -.7485 -.7654 -.7609 -.7199 -.6556



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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE

(XEBK63)

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

SECTION 1 UPRIGHT HANG INSIDE

DEPENDENT VARIABLE CP

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

SECTION 2 UPRIGHT HANG INSIDE

DEPENDENT VARIABLE CP

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

SECTION 3 UPRIGHT HANG INSIDE

DEPENDENT VARIABLE CP

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

SECTION 4 UPRIGHT HANG INSIDE

DEPENDENT VARIABLE CP

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

$\alpha = 3.991$      $\beta = 3.991$      $\beta(2) = .105$      $MACH = 1.2448$      $Q = 599.34$      $P = 552.51$      $RN/L = 3.0213$

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REGULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEB:53)

ALPHA = 51.0 BETA = 7.627 BETA ( 3 ) = 4.244 MACH = 1.2457 Q = 599.38 P = 551.80 RN/L = 3.0207

DEPENDENT VARIABLE CP

Z/80 3.00 4.120 5.070 6.020 6.970 7.920

CP  
-0.133 -0.1257 -0.1151 -0.1027 -0.1070 -0.6593  
-0.6902 -0.7237 -0.7239 -0.0000 -0.6548  
-0.6418 -0.6238 -0.7262 -0.7044 -0.6529  
-0.6921 -0.7119 -0.7310 -0.7015 -0.6476  
-0.6950 -0.7173 -0.7339 -0.7015 -0.6364

ALPHA = 51.0 BETA = 11.250 BETA ( 1 ) = -3.850 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

DEPENDENT VARIABLE CP

Z/80 3.00 4.120 5.070 6.020 6.970 7.920

CP  
-0.133 -0.1257 -0.1151 -0.1027 -0.1070 -0.6593  
-0.6902 -0.7237 -0.7239 -0.0000 -0.6548  
-0.6418 -0.6238 -0.7262 -0.7044 -0.6529  
-0.6921 -0.7119 -0.7310 -0.7015 -0.6476  
-0.6950 -0.7173 -0.7339 -0.7015 -0.6364

ALPHA = 51.0 BETA = 11.250 BETA ( 2 ) = -1.195 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

DEPENDENT VARIABLE CP

Z/80 3.00 4.120 5.070 6.020 6.970 7.920

CP  
-0.133 -0.1257 -0.1151 -0.1027 -0.1070 -0.6593  
-0.6902 -0.7237 -0.7239 -0.0000 -0.6548  
-0.6418 -0.6238 -0.7262 -0.7044 -0.6529  
-0.6921 -0.7119 -0.7310 -0.7015 -0.6476  
-0.6950 -0.7173 -0.7339 -0.7015 -0.6364

ALPHA = 51.0 BETA = 11.250 BETA ( 3 ) = 4.235 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

DEPENDENT VARIABLE CP

Z/80 3.00 4.120 5.070 6.020 6.970 7.920

CP  
-0.133 -0.1257 -0.1151 -0.1027 -0.1070 -0.6593  
-0.6902 -0.7237 -0.7239 -0.0000 -0.6548  
-0.6418 -0.6238 -0.7262 -0.7044 -0.6529  
-0.6921 -0.7119 -0.7310 -0.7015 -0.6476  
-0.6950 -0.7173 -0.7339 -0.7015 -0.6364

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INSULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 6449

AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBKN) (13 AUG 75)

REFERENCE DATA

XMRP = 4500.0000 IN. FT.  
 YMRP = 474.8000 IN.  
 ZMRP = 936.0000 IN.  
 XMRP = 1076.6800 IN. X0  
 YMRP = .0000 IN. Y0  
 ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

RUDDER = 5.000  
 BODY LAP = 16.300  
 R-ELVN = -4.000  
 SPDRYK = 55.000  
 L-ELVN = -4.000  
 MACH = 1.100

ALPHA (1) = -3.951 BETA (1) = -3.840 MACH = 1.0981 O = 598.93 P = 709.54 RN/L = 3.1905  
 SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 0. 3170 3120 5070 5020 6970 7920  
 1.09 1.843 1.833 1.8557 1.8716 1.8457 1.7645  
 1.76 1.809 1.831 1.8692 1.8761 1.8000 1.7674  
 1.95 1.913 1.849 1.8785 1.8901 1.8348 1.7664  
 1.97 1.9613 1.8423 1.8908 1.8761 1.8258 1.7554  
 1.99 1.9703 1.8522 1.8958 1.8718 1.8174 1.7466

ALPHA (1) = -3.948 BETA (2) = .195 MACH = 1.0981 O = 598.93 P = 709.54 RN/L = 3.1905  
 SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 0. 3170 3120 5070 5020 6970 7920  
 1.09 1.8163 1.8104 1.8333 1.8511 1.8231 1.7448  
 1.76 1.7971 1.8113 1.8443 1.8559 1.8000 1.7476  
 1.95 1.7971 1.8144 1.8575 1.8606 1.8132 1.7474  
 1.97 1.7950 1.8330 1.8654 1.8573 1.8032 1.7442  
 1.99 1.8120 1.8402 1.8746 1.8521 1.7894 1.7359

ALPHA (1) = -3.948 BETA (3) = 4.273 MACH = 1.0981 O = 598.93 P = 709.54 RN/L = 3.1905  
 SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z 0. 3170 3120 5070 5020 6970 7920  
 1.09 1.8149 1.8059 1.8285 1.8497 1.8161 1.7282  
 1.76 1.7959 1.8035 1.8401 1.8575 1.8000 1.7287  
 1.95 1.7946 1.8109 1.8551 1.8597 1.7920 1.7294  
 1.97 1.8036 1.8277 1.8651 1.8565 1.7900 1.7217  
 1.99 1.8141 1.8399 1.8749 1.8499 1.7722 1.7094

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TRANSFERRED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBKX4)

BETA (1) = .353 BETA (2) = .353 MACH = 1.0998 Q = 599.80 P = 708.37 EN/L = 3.1509

DEPENDENT VARIABLE CP

Z 84 .3170 .3120 .5070 .6020 .6970 .7920

.3170 .3120 .5070 .6020 .6970 .7920  
-.8330 -.7482  
-.8545 .0000  
-.8208 -.7482  
-.8659 -.7406  
-.8957 -.7294  
-.8981 -.7294

Z 84 .3170 .3120 .5070 .6020 .6970 .7920

BETA (2) = .353 MACH = 1.0998 Q = 599.80 P = 708.37 EN/L = 3.1509

DEPENDENT VARIABLE CP

.3170 .3120 .5070 .6020 .6970 .7920  
-.8330 -.7482  
-.8545 .0000  
-.8208 -.7482  
-.8659 -.7406  
-.8957 -.7294  
-.8981 -.7294

Z 84 .3170 .3120 .5070 .6020 .6970 .7920

BETA (2) = .353 MACH = 1.0998 Q = 599.80 P = 708.37 EN/L = 3.1509

DEPENDENT VARIABLE CP

.3170 .3120 .5070 .6020 .6970 .7920  
-.8330 -.7482  
-.8545 .0000  
-.8208 -.7482  
-.8659 -.7406  
-.8957 -.7294  
-.8981 -.7294

Z 84 .3170 .3120 .5070 .6020 .6970 .7920

BETA (2) = .353 MACH = 1.0998 Q = 599.80 P = 708.37 EN/L = 3.1509

DEPENDENT VARIABLE CP

.3170 .3120 .5070 .6020 .6970 .7920  
-.8330 -.7482  
-.8545 .0000  
-.8208 -.7482  
-.8659 -.7406  
-.8957 -.7294  
-.8981 -.7294

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 6-51

AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBKSH)

ALPHA ( 3 ) = 4.021 BETA ( 2 ) = 178 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7300 -.7213 -.7480 -.7677 -.7520 -.6398  
 .757 -.7123 -.7237 -.7561 -.7767 .0000 -.6741  
 .805 -.7009 -.7274 -.7708 -.7833 -.7354 -.6698  
 .887 -.7119 -.7494 -.7866 -.7850 -.7325 -.6661  
 .968 -.7236 -.7644 -.7955 -.7753 -.7195 -.6542

ALPHA ( 3 ) = 4.024 BETA ( 3 ) = 4.243 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7149 -.7178 -.7493 -.7824 -.7490 -.6609  
 .757 -.7076 -.7180 -.7587 -.7848 .0000 -.6590  
 .835 -.7017 -.7199 -.7744 -.7903 -.7400 -.6542  
 .887 -.7144 -.7449 -.7888 -.7853 -.7336 -.6494  
 .968 -.7234 -.7603 -.8094 -.7855 -.7187 -.6331

ALPHA ( 4 ) = 7.977 BETA ( 1 ) = -3.859 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.8015 -.7902 -.8186 -.8393 -.8132 -.7197  
 .757 -.7695 -.7916 -.8309 -.8461 .0000 -.7162  
 .805 -.7675 -.7975 -.8449 -.8497 -.7958 -.7140  
 .887 -.7730 -.8111 -.8556 -.8445 -.7819 -.7053  
 .968 -.7994 -.8264 -.8608 -.8414 -.7759 -.6920

ALPHA ( 4 ) = 7.981 BETA ( 2 ) = .181 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7192 -.7217 -.7473 -.7717 -.7492 -.6633  
 .757 -.7075 -.7200 -.7601 -.7638 .0000 -.6643  
 .805 -.7358 -.7272 -.7776 -.7855 -.7385 -.6610  
 .887 -.7110 -.7506 -.7914 -.7863 -.7288 -.6556  
 .968 -.7238 -.7584 -.8011 -.7921 -.7214 -.6458

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK64)

ALPHA ( 4 ) = 7.900 BETA ( 3 ) = 4.237 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

3	-.7206	-.7271	-.7530	-.7801	-.7585	-.6642
7	-.7052	-.7271	-.7673	-.7898	.0000	-.6647
.05	-.5993	-.7244	-.7268	-.7936	-.7374	-.6557
.397	-.7112	-.7401	-.7966	-.7818	-.7336	-.6457
.968	-.7247	-.7693	-.8055	-.7696	-.7269	-.6386

ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.844 MACH = 1.0980 Q = 599.84 P = 710.72 RN/L = 3.1951

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008	-.7913	-.7803	-.8100	-.8247	-.7932	-.7107
.757	-.7664	-.7644	-.8190	-.8314	.0000	-.7081
.835	-.7358	-.7920	-.8299	-.8328	-.7794	-.7040
.897	-.7779	-.8026	-.8389	-.8273	-.7633	-.6943
.968	-.7922	-.8127	-.8468	-.8259	-.7543	-.6756

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .189 MACH = 1.0980 Q = 599.84 P = 710.72 RN/L = 3.1951

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008	-.7593	-.7584	-.7824	-.8147	-.7898	-.6917
.757	-.7423	-.7591	-.7981	-.8263	.0000	-.6957
.835	-.7366	-.7622	-.8113	-.8301	-.7727	-.6907
.897	-.7453	-.7843	-.8346	-.8246	-.7611	-.6855
.968	-.7508	-.8014	-.8365	-.8277	-.7535	-.6694

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = 4.249 MACH = 1.0980 Q = 599.84 P = 710.72 RN/L = 3.1951

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.008	-.7097	-.7149	-.7404	-.7627	-.7433	-.6573
.757	-.7007	-.7155	-.7575	-.7717	.0000	-.6554
.835	-.7014	-.7224	-.7679	-.7740	-.7291	-.6488
.897	-.7061	-.7435	-.7804	-.7721	-.7250	-.6513
.968	-.7177	-.7694	-.7885	-.7681	-.7253	-.6492

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TABULATED PRESSURE DATA - 0A1+8 ( AMES 11-073-1 )

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AYES 11-073(0A1+8) -140A/B/C/R CR8 SPEED BRAKE

(XEBK65) ( 13 AUG 75 )

## REFERENCE DATA

SPEC = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. XC  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .900

ALPHA ( 1 ) = -3.955 BETA ( 1 ) = -3.837 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5057 -.5344 -.5870 -.6189 -.5901 -.4808  
 .757 -.5138 -.5327 -.6007 -.6263 .0000 -.4768  
 .805 -.5214 -.5519 -.6386 -.6393 -.5804 -.4771  
 .897 -.5365 -.5892 -.6530 -.6374 -.5608 -.4586  
 .968 -.5625 -.6282 -.6651 -.6298 -.5464 -.4446

ALPHA ( 2 ) = -3.963 BETA ( 2 ) = .195 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4444 -.4635 -.5077 -.5415 -.5280 -.4365  
 .757 -.4510 -.4633 -.5249 -.5512 .0000 -.4353  
 .805 -.4595 -.4780 -.5387 -.5583 -.5176 -.4324  
 .897 -.4660 -.5114 -.5504 -.5543 -.5110 -.4240  
 .968 -.4912 -.5400 -.5796 -.5491 -.4987 -.4294

ALPHA ( 3 ) = -3.957 BETA ( 3 ) = 4.274 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4290 -.4538 -.5001 -.5225 -.4977 -.4015  
 .757 -.4346 -.4505 -.5223 -.5348 .0000 -.3968  
 .805 -.4486 -.4757 -.5431 -.5400 -.4762 -.3938  
 .897 -.4703 -.5061 -.5591 -.5308 -.4757 -.3983  
 .968 -.4925 -.5413 -.5688 -.5298 -.4658 -.3945

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R JRB SPEED BRAKE

(XEBK65)

ALPHA ( 2 ) = .052 BETA ( 1 ) = -3.869 MACH = .90007 Q = 599.62 P = 1057.3 RN/L = 3.5759

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5269	-.5585	-.6261	-.6491	-.3129	-.4792
.757	-.5284	-.5543	-.6446	-.6687	.0000	-.4577
.805	-.5378	-.5756	-.6568	-.6741	-.5964	-.4676
.887	-.5565	-.6263	-.7006	-.6673	-.5812	-.4473
.968	-.5895	-.6705	-.7034	-.6502	-.5671	-.4333

ALPHA ( 2 ) = .054 BETA ( 2 ) = .179 MACH = .90007 Q = 599.62 P = 1057.3 RN/L = 3.5759

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4552	-.4822	-.5365	-.5557	-.5543	-.4526
.757	-.4614	-.4914	-.5531	-.5803	.0000	-.4523
.805	-.4597	-.5044	-.5661	-.5922	-.5314	-.4519
.887	-.4822	-.5385	-.5881	-.5829	-.5212	-.4386
.968	-.4518	-.5509	-.6080	-.5841	-.5172	-.4348

ALPHA ( 2 ) = .050 BETA ( 3 ) = 4.252 MACH = .90007 Q = 599.62 P = 1057.3 RN/L = 3.5759

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4523	-.4874	-.5344	-.5607	-.5271	-.4232
.757	-.4526	-.4848	-.5522	-.5650	.0000	-.4140
.805	-.4639	-.5081	-.5632	-.5766	-.4979	-.4040
.887	-.4940	-.5280	-.5329	-.5745	-.5003	-.4053
.968	-.5192	-.5704	-.6041	-.5639	-.4939	-.3951

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -3.873 MACH = .89817 Q = 598.16 P = 1059.3 RN/L = 3.5705

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5313	-.5607	-.6291	-.6453	-.6016	-.4392
.757	-.5313	-.5597	-.6612	-.6659	.0000	-.4319
.805	-.5405	-.5794	-.6827	-.6676	-.5616	-.4115
.887	-.5581	-.6362	-.6910	-.6517	-.5443	-.3993
.968	-.5806	-.6630	-.7036	-.6491	-.5514	-.3718



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.021 BETA ( 2 ) = .183 MACH = .89817 Q = 598.16 P = 1059.3 RN/L = 3.5705  
(XEBK65)

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4570 -.4824 -.5379 -.5812 -.5539 -.4503  
.757 -.4758 -.4995 -.5565 -.5862 -.0000 -.4494  
.805 -.4735 -.5080 -.5850 -.5995 -.5327 -.4418  
.887 -.4935 -.5335 -.5987 -.5947 -.5287 -.4355  
.968 -.5168 -.5747 -.6182 -.5812 -.5199 -.4308

ALPHA ( 3 ) = 4.023 BETA ( 3 ) = 4.246 MACH = .89817 Q = 598.16 P = 1059.3 RN/L = 3.5705

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4513 -.4950 -.5546 -.5878 -.5444 -.4152  
.757 -.4763 -.5052 -.5769 -.6052 -.0000 -.4038  
.805 -.4874 -.5152 -.5971 -.6137 -.5214 -.3965  
.887 -.5116 -.5534 -.6220 -.6087 -.5100 -.4010  
.969 -.5442 -.6052 -.6527 -.5902 -.4969 -.3859

ALPHA ( 4 ) = 7.876 BETA ( 1 ) = -3.865 MACH = .89873 Q = 598.61 P = 1058.8 RN/L = 3.5706

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5445 -.5691 -.6411 -.6565 -.6027 -.4345  
.757 -.5423 -.5722 -.6646 -.6821 -.0000 -.4214  
.805 -.5516 -.5934 -.6954 -.6821 -.5634 -.4136  
.887 -.5684 -.6387 -.7165 -.6665 -.5539 -.3947  
.958 -.5878 -.6726 -.7291 -.6606 -.5411 -.3883

ALPHA ( 4 ) = 7.884 BETA ( 2 ) = .183 MACH = .89873 Q = 598.61 P = 1058.8 RN/L = 3.5706

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4700 -.4991 -.5503 -.5786 -.5651 -.4398  
.757 -.4771 -.5072 -.5729 -.6037 -.0000 -.4509  
.805 -.4885 -.5212 -.5866 -.6144 -.5404 -.4467  
.887 -.5050 -.5539 -.6213 -.6120 -.5271 -.4295  
.959 -.5330 -.5849 -.6298 -.6021 -.5252 -.4100

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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CLP-2 ( 1 ) = 7.892 BETA ( 3 ) = 4.244 MACH = .89873 Q = 598.61 P = 1058.8 RN/L = 3.5706 (XEBK65)

## SECTION ON RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4811	-.5163	-.5854	-.6184	-.5614	-.4079
.757	-.4995	-.5227	-.6049	-.6360	.0000	-.4079
.805	-.5047	-.5422	-.6382	-.6439	-.5412	-.4000
.853	-.5091	-.5662	-.6769	-.6295	-.5329	-.3823
.901	-.5035	-.6308	-.6790	-.6180	-.5117	-.3757

CLP-2 ( 2 ) = 11.927 BETA ( 1 ) = -3.854 MACH = .89780 Q = 598.05 P = 1060.0 RN/L = 3.5707

## SECTION ON RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6738	-.5320	-.6694	-.6621	-.5874	-.4377
.757	-.6639	-.6032	-.6920	-.6742	.0000	-.4130
.805	-.6533	-.6646	-.7040	-.6839	-.5604	-.4154
.853	-.6421	-.6654	-.7128	-.6597	-.5427	-.3927
.901	-.6319	-.6581	-.7277	-.6576	-.5249	-.3832

CLP-2 ( 3 ) = 11.920 BETA ( 2 ) = .190 MACH = .89780 Q = 598.05 P = 1060.0 RN/L = 3.5707

## SECTION ON RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6025	-.5288	-.6020	-.6537	-.5927	-.4546
.757	-.5923	-.5495	-.6340	-.6495	.0000	-.4397
.805	-.5823	-.5733	-.6532	-.6561	-.5635	-.4378
.853	-.5721	-.5716	-.6619	-.6556	-.5503	-.4349
.901	-.5619	-.5695	-.6702	-.6464	-.5424	-.4405

CLP-2 ( 4 ) = 11.907 BETA ( 3 ) = 4.253 MACH = .89780 Q = 598.05 P = 1060.0 RN/L = 3.5707

## SECTION ON RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6025	-.5288	-.6020	-.6484	-.5082	-.4304
.757	-.5923	-.5495	-.6340	-.6659	.0000	-.4256
.805	-.5823	-.5733	-.6532	-.6693	-.5562	-.4294
.853	-.5721	-.5716	-.6619	-.6535	-.5434	-.4175
.901	-.5619	-.5695	-.6702	-.6572	-.5292	-.4054

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK66) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -7.846 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8009

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6651 -.7224 -.8266 -.7167 -.5462 -.3522  
.757 -.6551 -.7184 -.8280 -.7279 -.5000 -.3296  
.805 -.6435 -.7454 -.8079 -.7150 -.5167 -.3291  
.837 -.5785 -.8264 -.8450 -.7117 -.4909 -.3167  
.963 -.7058 -.8269 -.8347 -.7074 -.4836 -.3390

ALPHA ( 2 ) = -3.699 BETA ( 2 ) = -3.843 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8005

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5477 -.5919 -.6865 -.6513 -.5610 -.3838  
.757 -.5532 -.6029 -.7052 -.6504 -.5000 -.3778  
.805 -.5536 -.6450 -.7236 -.6712 -.5248 -.3668  
.837 -.5857 -.6834 -.7435 -.6479 -.5047 -.3477  
.963 -.6214 -.7124 -.7356 -.6575 -.5126 -.3413

ALPHA ( 3 ) = -3.894 BETA ( 3 ) = .194 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8008

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5198 -.5704 -.6514 -.6320 -.5505 -.3644  
.757 -.5321 -.5920 -.6758 -.6428 -.5000 -.3685  
.805 -.5378 -.6103 -.6956 -.6591 -.5046 -.3558  
.837 -.5744 -.6531 -.7088 -.6344 -.4940 -.3469  
.963 -.6094 -.7228 -.7251 -.6198 -.4775 -.3381

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.902 BETA ( 4 ) = 4.271 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.9005  
(XECK55)SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-1.5061	-1.5622	-1.6403	-1.6148	-1.5343	-1.3566
.757	-1.5198	-1.5707	-1.6707	-1.6345	-1.5000	-1.3558
.805	-1.5442	-1.6076	-1.7312	-1.6343	-1.4959	-1.3606
.853	-1.5848	-1.6653	-1.8058	-1.6107	-1.4758	-1.3416
.901	-1.6415	-1.7310	-1.8759	-1.6050	-1.4654	-1.3257

ALPHA ( 1 ) = -3.917 BETA ( 5 ) = 8.333 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.9005

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-1.3294	-1.3748	-1.4754	-1.4724	-1.5172	-1.3222
.757	-1.3161	-1.3677	-1.4614	-1.4591	0.000	-1.2958
.805	-1.3141	-1.3696	-1.4641	-1.4672	-1.4757	-1.3158
.853	-1.3220	-1.3722	-1.4635	-1.4593	-1.4563	-1.3059
.901	-1.3300	-1.3793	-1.4634	-1.4629	-1.4503	-1.2655

ALPHA ( 2 ) = .055 BETA ( 1 ) = -7.866 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.9075

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-1.228	-1.2627	-1.3891	-1.7553	-1.5645	-1.3499
.757	-1.2150	-1.2479	-1.3679	-1.7780	0.000	-1.3365
.805	-1.2080	-1.2404	-1.3594	-1.7662	-1.5118	-1.3118
.853	-1.2116	-1.2421	-1.3571	-1.7510	-1.4935	-1.2826
.901	-1.2156	-1.2452	-1.3545	-1.7376	-1.4650	-1.2293

ALPHA ( 2 ) = .075 BETA ( 2 ) = -3.052 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.9075

SECTION 1 ( RIGHT HAND INSIDE )  
DEPENDENT VARIABLE CP

Z BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-1.0806	-1.1141	-1.2132	-1.6070	-1.3928	-1.3032
.757	-1.0694	-1.1029	-1.2049	-1.6049	0.000	-1.3001
.805	-1.0630	-1.0963	-1.2000	-1.6051	-1.5213	-1.3144
.853	-1.0669	-1.0993	-1.2000	-1.6051	-1.5108	-1.3100
.901	-1.0709	-1.1024	-1.2000	-1.6051	-1.5100	-1.3100

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .076 BETA ( 3 ) = .175 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

(XE9K66)

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5491	-.6117	-.7090	-.6607	-.5566	-.3654
.757	-.5732	-.6023	-.7178	-.6773	.0000	-.3601
.805	-.5656	-.6496	-.7433	-.6690	-.5123	-.3501
.857	-.5971	-.7010	-.7694	-.6681	-.4982	-.3402
.908	-.6406	-.7290	-.7693	-.6551	-.4894	-.3181

ALPHA ( 2 ) = .073 BETA ( 4 ) = .4250 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5713	-.6304	-.7305	-.6751	-.5325	-.3267
.757	-.5756	-.6304	-.7523	-.6999	.0000	-.3262
.805	-.5358	-.6757	-.7593	-.6878	-.4361	-.3184
.857	-.6230	-.7417	-.7760	-.6450	-.4655	-.2980
.908	-.6572	-.7739	-.7837	-.6378	-.4567	-.2763

ALPHA ( 2 ) = .059 BETA ( 5 ) = 8.308 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6658	-.7520	-.8916	-.7205	-.4662	-.2269
.757	-.6722	-.7525	-.9058	-.7334	.0000	-.2133
.805	-.6866	-.8114	-.9266	-.7095	-.4242	-.2159
.857	-.7530	-.9208	-.9436	-.6492	-.3683	-.1975
.908	-.8142	-.9371	-.9170	-.6005	-.3304	-.1840

ALPHA ( 3 ) = .4021 BETA ( 1 ) = -7.893 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7715	-.8262	-.8220	-.7583	-.5419	-.3335
.757	-.7415	-.8292	-.9143	-.7645	.0000	-.3131
.805	-.7450	-.8505	-.9153	-.7554	-.5175	-.2973
.857	-.7636	-.9161	-.9206	-.7315	-.4755	-.2922
.908	-.7832	-.9204	-.9347	-.7454	-.4611	-.2778

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBX66)

ALPHA ( 3 ) = 4.024 BETA ( 2 ) = -3.864 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5837	-.6322	-.7057	-.6434	-.4966	-.3078
.757	-.5744	-.6384	-.7286	-.6625	.0000	-.3068
.805	-.5733	-.6749	-.7480	-.6508	.4622	-.3054
.857	-.5828	-.7155	-.7834	-.6398	.4546	-.3128
.908	-.5805	-.7551	-.7575	-.6155	.4629	-.3279

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = .186 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5593	-.6100	-.7153	-.6745	-.5685	-.3728
.757	-.5698	-.6175	-.7503	-.6893	.0000	-.3623
.805	-.5795	-.6487	-.7620	-.6898	-.5178	-.3418
.857	-.5876	-.6717	-.7713	-.6717	-.5178	-.3390
.908	-.5902	-.7012	-.7794	-.6636	-.4607	-.3238

ALPHA ( 3 ) = 4.025 BETA ( 4 ) = 4.244 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5779	-.6420	-.7649	-.6565	-.4798	-.2606
.757	-.5847	-.6622	-.7838	-.6657	.0000	-.2368
.805	-.5911	-.6799	-.8057	-.6697	.4217	-.2427
.857	-.5941	-.7069	-.8254	-.6290	-.3950	-.2264
.908	-.5943	-.7521	-.8153	-.6145	-.3656	-.2189

ALPHA ( 7 ) = 4.031 BETA ( 5 ) = 8.254 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6005	-.6990	-.8121	-.7303	-.4586	-.2147
.757	-.6005	-.7149	-.8275	-.7413	.0000	-.2233
.805	-.6009	-.7306	-.8445	-.7488	.4111	-.2135
.857	-.6015	-.7446	-.8610	-.6910	-.3660	-.1980
.908	-.6034	-.7624	-.8565	-.6873	-.3269	-.1930

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.853 BETA ( 1 ) = -7.858 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971  
 (XEBK55)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6889 -.7527 -.8037 -.8470 -.4369 -.2769  
 .757 -.6656 -.7482 -.8210 -.8626 -.0000 -.2757  
 .805 -.6697 -.8070 -.8191 -.8454 -.4371 -.2723  
 .857 -.6357 -.8180 -.8214 -.8575 -.4307 -.2718  
 .909 -.7459 -.8575 -.8286 -.8449 -.4092 -.2841

ALPHA ( 4 ) = 7.996 BETA ( 2 ) = -3.859 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5859 -.6274 -.6973 -.8200 -.4884 -.3033  
 .757 -.5546 -.6371 -.7241 -.8391 -.0000 -.3002  
 .805 -.5713 -.6536 -.7384 -.8336 -.4542 -.2980  
 .857 -.5936 -.7412 -.7530 -.8223 -.4408 -.2899  
 .909 -.6376 -.7568 -.7532 -.8126 -.4712 -.3003

ALPHA ( 4 ) = 7.991 BETA ( 3 ) = .178 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5669 -.6099 -.7109 -.8099 -.5691 -.3801  
 .757 -.5771 -.6315 -.7387 -.8042 -.0000 -.3593  
 .805 -.5833 -.6733 -.7710 -.8675 -.5341 -.3579  
 .857 -.6194 -.7050 -.7768 -.8696 -.5196 -.3378  
 .909 -.6493 -.7542 -.7893 -.8872 -.5150 -.3132

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = 4.237 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5932 -.6432 -.7511 -.8562 -.4894 -.2654  
 .757 -.5339 -.6549 -.8070 -.8811 -.0000 -.2561  
 .805 -.6022 -.7127 -.8067 -.8687 -.4365 -.2547  
 .857 -.6497 -.7183 -.8393 -.8423 -.4119 -.2519  
 .909 -.7108 -.8473 -.9317 -.8012 -.3758 -.2148

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(XEBK65)

ALPHA ( 4 ) = 7.989 BETA ( 5 ) = 8.293 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7378

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 - .6201 - .6957 - .8179 - .6568 - .4127 - .2425  
 .757 - .6201 - .7089 - .8440 - .6630 - .0000 - .2356  
 .805 - .6497 - .7899 - .8282 - .6596 - .3699 - .2397  
 .857 - .6755 - .8117 - .8603 - .5838 - .3521 - .2359  
 .908 - .6982 - .8318 - .8188 - .5081 - .3072 - .2352

ALPHA ( 5 ) = 12.022 BETA ( 1 ) = -7.846 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7378

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 - .6291 - .7287 - .7907 - .6608 - .4842 - .3114  
 .757 - .6540 - .7475 - .7921 - .6559 - .0000 - .2971  
 .805 - .6507 - .7781 - .8066 - .6553 - .4570 - .2985  
 .857 - .6841 - .8095 - .8297 - .6658 - .4553 - .3124  
 .908 - .7035 - .8305 - .7592 - .6739 - .5019 - .3157

ALPHA ( 5 ) = 12.022 BETA ( 2 ) = -3.839 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7378

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 - .6837 - .8276 - .7119 - .6752 - .5178 - .2951  
 .757 - .6732 - .8416 - .7447 - .6845 - .0000 - .3130  
 .805 - .6855 - .8682 - .7583 - .6709 - .4903 - .2932  
 .857 - .6864 - .8739 - .7692 - .6492 - .4620 - .3056  
 .908 - .642 - .8752 - .7707 - .6457 - .4605 - .3059

ALPHA ( 5 ) = 11.553 BETA ( 3 ) = .185 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7378

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 - .6657 - .8197 - .7470 - .7035 - .5768 - .3625  
 .757 - .6588 - .8437 - .7568 - .7239 - .0000 - .3565  
 .805 - .6734 - .8925 - .7979 - .7116 - .5316 - .3465  
 .857 - .6678 - .8811 - .8055 - .6927 - .5081 - .3295  
 .908 - .6835 - .8316 - .6803 - .5019 - .3224



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 AYES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE (XEBK65)  
 ALPHA ( 5 ) = 11.930 BETA ( 4 ) = 4.247 MACH = .59422 Q = 590.06 P = 2387.2 RAYL = 4.7978

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5676 -.6292 -.7322 -.6683 -.5105 -.3024  
 .757 -.5774 -.6419 -.7542 -.6975 .0000 -.2969  
 .805 -.5916 -.6623 -.7676 -.6812 -.4765 -.2799  
 .897 -.6395 -.7393 -.7895 -.6521 -.4347 -.2801  
 .959 -.6959 -.8095 -.8009 -.6205 -.4237 -.2727

ALPHA ( 5 ) = 11.973 BETA ( 5 ) = 8.307 MACH = .59422 Q = 590.06 P = 2367.2 RAYL = 4.7978

SECTION 1 RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B: .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6371 -.7120 -.8471 -.7086 -.4713 -.2491  
 .757 -.6390 -.7194 -.8672 -.7203 .0000 -.2446  
 .805 -.6564 -.7396 -.8993 -.6957 -.4128 -.2374  
 .897 -.7448 -.8357 -.9006 -.6402 -.3378 -.2323  
 .959 -.8128 -.9492 -.8627 -.5645 -.3518 -.2264

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AXES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

REFERENCE DATA

ORF = 601.722 SQ.FT. XMRP = 1076.680 IN. X0  
ORF = 47.810 IN. YMRP = .0000 IN. Y0  
ORF = 983.360 IN. ZMRP = 375.000 IN. Z0  
SCALE = .0010

ALPHA ( 1 ) = -3.954 BETA ( 1 ) = -3.849 MACH = .90057 Q = 600.66 P = 1058.0 RN/L = 3.6340

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

W/C

.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000

ALPHA ( 2 ) = -3.952 BETA ( 2 ) = .192 MACH = .90057 Q = 600.66 P = 1058.0 RN/L = 3.6340

SECTION ( 2 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

W/C

.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000

ALPHA ( 3 ) = -3.952 BETA ( 3 ) = .272 MACH = .90057 Q = 600.66 P = 1058.0 RN/L = 3.6340

SECTION ( 3 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z 84 .3170 .4120 .5070 .6020 .6970 .7920

W/C

.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000  
.0000 .0000 .0000 .0000 .0000 .0000

PARAMETRIC DATA

RUDDER = .000  
80FLAP = 22.500  
R-ELVN = -4.000  
MACH = .900

(XEBK57) 1 13 AUG 75 )

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ALPHA ( 2 ) = .049

BETA ( 1 ) = -3.871

Q = 601.04

P = 1056.9

RN/L = 3.6167

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Q A/B/C/R ORB SPEED BRAKE

(XEBK67)

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970

X/CV

.708 -.4682 -.5017 -.5632 -.5930 -.6069 -.6072 -.6164 -.6235 -.6250 -.6217

.757 -.4755 -.5024 -.5795 -.6069 -.6072 -.6072 -.6164 -.6235 -.6250 -.6217

.805 -.4845 -.5237 -.6010 -.6072 -.6072 -.6072 -.6164 -.6235 -.6250 -.6217

.887 -.5081 -.5555 -.6223 -.6164 -.6164 -.6164 -.6235 -.6250 -.6250 -.6217

.968 -.5364 -.6001 -.6402 -.5951 -.5951 -.5951 -.6078 -.6107

ALPHA ( 2 ) = .052

BETA ( 2 ) = .177

MACH = .90130

Q = 601.04

P = 1056.9

RN/L = 3.6167

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4264 -.4549 -.4849 -.5308 -.5083 -.5083 -.5083 -.5083 -.5083 -.5083

.757 -.4307 -.4562 -.5078 -.5365 -.5083 -.5083 -.5083 -.5083 -.5083 -.5083

.805 -.4470 -.4624 -.5242 -.5374 -.5029 -.5029 -.5029 -.5029 -.5029 -.5029

.887 -.4624 -.4932 -.5516 -.5379 -.4967 -.4967 -.4967 -.4967 -.4967 -.4967

.968 -.4799 -.5234 -.5651 -.5405 -.4885 -.4885 -.4885 -.4885 -.4885 -.4885

ALPHA ( 2 ) = .052

BETA ( 3 ) = .4253

MACH = .90130

Q = 601.04

P = 1056.9

RN/L = 3.6167

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4621 -.4935 -.5513 -.5970 -.5456 -.5456 -.5456 -.5456 -.5456 -.5456

.757 -.4691 -.4992 -.5631 -.5929 -.5000 -.5000 -.5000 -.5000 -.5000 -.5000

.805 -.4876 -.5091 -.5913 -.5932 -.5305 -.5305 -.5305 -.5305 -.5305 -.5305

.887 -.5239 -.5597 -.6192 -.5955 -.5250 -.5250 -.5250 -.5250 -.5250 -.5250

.968 -.5429 -.5913 -.6303 -.5844 -.5078 -.5078 -.5078 -.5078 -.5078 -.5078

ALPHA ( 3 ) = .4019

BETA ( 1 ) = -3.877

MACH = .89987

Q = 599.87

P = 1058.3

RN/L = 3.6007

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4733 -.5027 -.5548 -.6126 -.5572 -.5572 -.5572 -.5572 -.5572 -.5572

.757 -.4797 -.5121 -.5393 -.5251 -.5000 -.5000 -.5000 -.5000 -.5000 -.5000

.805 -.4932 -.5247 -.6249 -.6187 -.5392 -.5392 -.5392 -.5392 -.5392 -.5392

.887 -.5176 -.5912 -.6491 -.6197 -.5203 -.5203 -.5203 -.5203 -.5203 -.5203

.968 -.5450 -.6330 -.6630 -.6135 -.5091 -.5091 -.5091 -.5091 -.5091 -.5091

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK67)

ALPHA ( 3 ) = 4.018 BETA ( 2 ) = .181 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.6007

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4188 -.4443 -.4366 -.5345 -.5018 -.4118  
 .757 -.4315 -.4476 -.5236 -.5425 -.5000 -.4097  
 .805 -.4505 -.4722 -.5408 -.5515 -.5077 -.4127  
 .853 -.4706 -.4938 -.5572 -.5522 -.4914 -.4121  
 .901 -.4855 -.5102 -.5742 -.5491 -.4857 -.3962

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = 4.243 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.6007

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4673 -.5040 -.5534 -.5918 -.5515 -.4237  
 .757 -.4726 -.5073 -.5842 -.6185 -.5000 -.4216  
 .805 -.4965 -.5245 -.6121 -.6116 -.5411 -.4208  
 .857 -.5395 -.5693 -.6339 -.6112 -.5222 -.4110  
 .908 -.5579 -.6064 -.6502 -.6045 -.5051 -.3975

ALPHA ( 4 ) = 7.995 BETA ( 1 ) = -3.860 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4870 -.5227 -.5913 -.6308 -.5726 -.4395  
 .757 -.4822 -.5159 -.5889 -.6442 -.5000 -.4182  
 .805 -.5037 -.5327 -.6114 -.6300 -.5570 -.4213  
 .857 -.5338 -.5561 -.6608 -.6315 -.5369 -.4041  
 .909 -.5702 -.6145 -.6778 -.6334 -.5307 -.3916

ALPHA ( 4 ) = 7.993 BETA ( 2 ) = .182 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

SECTION 1 : RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4299 -.4622 -.5211 -.5608 -.5161 -.4127  
 .757 -.4481 -.4766 -.5421 -.5679 -.5000 -.4124  
 .805 -.4594 -.4832 -.5636 -.5719 -.5131 -.4032  
 .857 -.4826 -.5054 -.6000 -.5716 -.4356 -.4013  
 .908 -.5090 -.5556 -.6075 -.5681 -.4866 -.3845

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.992 BETA ( 3 ) = 4.242 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837  
 AMES 11-073(0A148) - 140A/B/C/R ORB SPEED BRAKE (XE8K67)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4850 -.5202 -.5747 -.6092 -.5706 -.4293  
 .757 -.5031 -.5331 -.5992 -.6250 -.6000 -.4317  
 .805 -.5036 -.5556 -.6356 -.6335 -.5449 -.4326  
 .887 -.5391 -.5972 -.6614 -.6356 -.5383 -.4142  
 .958 -.5823 -.6380 -.6720 -.6292 -.5125 -.3988

ALPHA ( 5 ) = 11.953 BETA ( 1 ) = -3.856 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.5762

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5220 -.5514 -.6280 -.6460 -.5830 -.4531  
 .757 -.5225 -.5630 -.6510 -.6655 -.6000 -.4479  
 .805 -.5377 -.5627 -.6659 -.6514 -.5745 -.4313  
 .897 -.5637 -.6220 -.6977 -.6546 -.5588 -.4230  
 .958 -.5033 -.6555 -.6987 -.6370 -.5491 -.4047

ALPHA ( 5 ) = 11.953 BETA ( 2 ) = .189 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.5762

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4723 -.5085 -.5584 -.5977 -.5463 -.4419  
 .757 -.4829 -.5096 -.5766 -.6093 -.6000 -.4280  
 .805 -.5021 -.5219 -.6145 -.6156 -.5416 -.4223  
 .887 -.5225 -.5783 -.6405 -.6133 -.5286 -.4080  
 .968 -.5305 -.6131 -.6485 -.5931 -.5165 -.3921

ALPHA ( 5 ) = 11.953 BETA ( 3 ) = 4.261 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.5762

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5066 -.5486 -.6077 -.6318 -.5770 -.4412  
 .757 -.5238 -.5515 -.6449 -.6441 -.6000 -.4303  
 .805 -.5361 -.5654 -.6571 -.6482 -.5573 -.4135  
 .887 -.5630 -.6314 -.6955 -.6420 -.5429 -.4199  
 .968 -.6023 -.6848 -.7054 -.6389 -.5190 -.4114

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK68) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2050.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0550 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0303

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -7.845 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347  
 ALPHA ( 2 ) = -3.918 BETA ( 2 ) = -3.844 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347

SECTION 1 ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 - .5385 - .6590 - .7429 - .7110 - .5571 - .3592  
 .657 - .6179 - .6476 - .7122 - .7170 .0000 - .3526  
 .605 - .5370 - .5378 - .8133 - .6986 - .5195 - .3611  
 .587 - .6484 - .7419 - .8264 - .6775 - .5153 - .3466  
 .568 - .6771 - .7955 - .8185 - .6694 - .5257 - .3648

SECTION 2 ( 1 ) LEFT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 - .5333 - .5693 - .6501 - .6199 - .5290 - .3758  
 .657 - .5343 - .5576 - .6829 - .6389 .0000 - .3675  
 .605 - .5387 - .5119 - .6301 - .6295 - .5086 - .3566  
 .587 - .5692 - .6505 - .7135 - .6182 - .4929 - .3395  
 .569 - .5537 - .6017 - .7050 - .6213 - .4848 - .3371

SECTION 3 ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 - .5249 - .5425 - .6392 - .6094 - .5167 - .3597  
 .657 - .5050 - .5524 - .6663 - .6225 .0000 - .3604  
 .605 - .5213 - .5866 - .6777 - .6308 - .4991 - .3407  
 .587 - .5468 - .6394 - .6929 - .6156 - .4810 - .3349  
 .569 - .5304 - .6083 - .6996 - .5951 - .4648 - .3126

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000  
 BDFLAP = 22.500 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .600

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE

(XE8X68)

ALPHA ( 1 ) = -3.903 BETA ( 4 ) = 4.270 MACH = .59574 O = 593.04 P = 2387.2 RN/L = 4.8347

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5123	-.5550	-.6548	-.6092	-.5181	-.3617
.757	-.5293	-.5824	-.6594	-.6365	.0003	-.3572
.805	-.5517	-.6171	-.6912	-.6327	-.4891	-.3534
.857	-.5390	-.6725	-.7098	-.6111	-.4668	-.3241
.908	-.6357	-.7116	-.7045	-.5990	-.4504	-.3237

ALPHA ( 1 ) = -3.916 BETA ( 5 ) = 8.339 MACH = .59574 O = 593.04 P = 2387.2 RN/L = 4.8347

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5361	-.6615	-.7409	-.6813	-.5182	-.3588
.757	-.6066	-.6606	-.7764	-.6941	.0000	-.3393
.805	-.6295	-.7120	-.7915	-.6848	-.5033	-.3431
.857	-.6726	-.7944	-.8120	-.6682	-.4819	-.3324
.908	-.7393	-.8220	-.7950	-.6249	-.4339	-.3089

ALPHA ( 2 ) = .067 BETA ( 1 ) = -7.888 MACH = .59556 O = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7044	-.7541	-.8886	-.7760	-.5720	-.3156
.757	-.7099	-.7770	-.9180	-.8093	.0000	-.3197
.805	-.7245	-.8239	-.9137	-.7899	-.0227	-.3023
.857	-.7533	-.8735	-.9422	-.7693	-.4753	-.2860
.908	-.7392	-.9192	-.9522	-.7212	-.4477	-.2735

ALPHA ( 2 ) = .076 BETA ( 2 ) = -3.860 MACH = .59556 O = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5377	-.6097	-.6910	-.6494	-.5372	-.3351
.757	-.5622	-.6101	-.7423	-.6717	.0000	-.3318
.805	-.5747	-.6563	-.7409	-.6594	-.5103	-.3227
.857	-.6044	-.7221	-.7621	-.6598	-.4913	-.3167
.908	-.6731	-.7643	-.7547	-.6354	-.4706	-.3258

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XEBK58)

ALPHA ( 2 ) = .078 BETA ( 3 ) = .177 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5195	-.5757	-.6724	-.6386	-.5303	-.3594
.757	-.5271	-.5903	-.7079	-.6536	.0000	-.3528
.805	-.5561	-.6321	-.7271	-.6434	-.5146	-.3485
.897	-.5989	-.6925	-.7343	-.6369	-.4894	-.3277
.989	-.6529	-.7569	-.7326	-.6186	-.4723	-.3081

ALPHA ( 2 ) = .074 BETA ( 4 ) = 4.252 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5459	-.6082	-.7240	-.6657	-.5120	-.3165
.757	-.5730	-.6451	-.7325	-.6821	.0000	-.3303
.805	-.5549	-.6753	-.7341	-.6638	-.4952	-.3244
.897	-.6356	-.7370	-.7720	-.6417	-.4536	-.2910
.989	-.6942	-.7911	-.7735	-.6057	-.4291	-.2738

ALPHA ( 2 ) = .059 BETA ( 5 ) = 8.307 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6404	-.7143	-.8604	-.7233	-.4967	-.2724
.757	-.6590	-.7471	-.8789	-.7340	.0000	-.2599
.805	-.6778	-.7803	-.8795	-.7184	-.4504	-.2708
.897	-.7775	-.9371	-.9186	-.6554	-.4233	-.2445
.989	-.8477	-.9959	-.8716	-.5157	-.3660	-.2181

ALPHA ( 2 ) = .022 BETA ( 6 ) = -7.901 MACH = .59544 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7261	-.7991	-.9315	-.7956	-.5876	-.3254
.757	-.7363	-.8100	-.9489	-.8257	.0000	-.2981
.805	-.7364	-.8503	-.9520	-.7907	-.5309	-.2749
.897	-.7590	-.9542	-.9541	-.7671	-.4891	-.2702
.989	-.8129	-.9963	-.9682	-.7418	-.4130	-.2469



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB SPEED BRAKE

(XE8K58)

ALPHA ( 3 ) = 4.025 BETA ( 2 ) = -3.862 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5585 -.6197 -.7376 -.6462 -.4979 -.2984  
 .757 -.5606 -.6059 -.7350 -.6680 .0000 -.2883  
 .805 -.5851 -.6774 -.7637 -.6564 -.4709 -.29F  
 .897 -.6126 -.7344 -.7838 -.6441 -.4317 -.2F  
 .959 -.6551 -.7735 -.7747 -.6137 -.4220 -.26LJ

ALPHA ( 3 ) = 4.023 BETA ( 3 ) = .182 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION 4 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6281 -.5930 -.6839 -.6398 -.5403 -.3587  
 .757 -.5333 -.5933 -.7098 -.6547 .0000 -.3549  
 .805 -.5537 -.6329 -.7361 -.6571 -.5109 -.3428  
 .897 -.6037 -.6957 -.7483 -.6379 -.4928 -.3256  
 .959 -.6429 -.7542 -.7461 -.6267 -.4598 -.3141

ALPHA ( 3 ) = 4.027 BETA ( 4 ) = 4.243 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6613 -.6352 -.7447 -.6552 -.4583 -.2628  
 .757 -.5825 -.6389 -.7566 -.6766 .0000 -.2765  
 .805 -.5870 -.7045 -.7809 -.6391 -.4331 -.2635  
 .897 -.6505 -.7817 -.9119 -.6244 -.3919 -.2485  
 .959 -.7332 -.8545 -.7743 -.5734 -.3658 -.2181

ALPHA ( 3 ) = 4.033 BETA ( 5 ) = 8.290 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6867 -.7590 -.9195 -.7494 -.5030 -.2656  
 .757 -.7025 -.7362 -.9351 -.7752 .0000 -.2647  
 .805 -.7348 -.8327 -.9561 -.7452 -.4650 -.2573  
 .897 -.8243 -.9314 -.9344 -.5444 -.4114 -.2340  
 .959 -.8651 -.9081 -.8349 -.6326 -.3793 -.2369

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AMES 11-073(0A148) -140A/B/C/R ORB SPEED BRAKE (XEBK68)

ALPHA ( 4 ) = 7.982 BETA ( 1 ) = -7.830 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

X/COV  
 .709 -.6480 -.7134 -.8218 -.7025 -.4857 -.2677  
 .757 -.6444 -.7169 -.8216 -.7108 .0000 -.2618  
 .805 -.6521 -.7748 -.8375 -.6972 -.4493 -.2535  
 .897 -.6916 -.8491 -.8695 -.6685 -.4134 -.2570  
 .958 -.7444 -.8947 -.8695 -.6623 -.3937 -.2591

ALPHA ( 4 ) = 7.993 BETA ( 2 ) = -3.860 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 2 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

X/COV  
 .713 -.6477 -.7097 -.7072 -.6395 -.4854 -.2973  
 .757 -.6560 -.7327 -.7387 -.6515 .0000 -.2890  
 .805 -.6562 -.7327 -.7322 -.6445 -.4611 -.2855  
 .897 -.6583 -.7325 -.7633 -.6256 -.4310 -.2823  
 .958 -.6553 -.7573 -.7673 -.6111 -.4483 -.2585

ALPHA ( 4 ) = 7.991 BETA ( 3 ) = .185 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 3 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

X/COV  
 .709 -.6051 -.6271 -.6717 -.6557 -.5375 -.3586  
 .757 -.6353 -.6939 -.7317 -.6990 .0000 -.3463  
 .805 -.6532 -.7323 -.7247 -.6577 -.5029 -.3503  
 .897 -.6920 -.7327 -.7371 -.6503 -.4908 -.3335  
 .958 -.6929 -.7325 -.7409 -.6314 -.4633 -.3238

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = 4.234 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 4 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV 3170 4120 5070 6020 6970 7920

X/COV  
 .709 -.6442 -.6676 -.7485 -.6473 -.4868 -.2781  
 .757 -.6534 -.6672 -.7470 -.6759 .0000 -.2757  
 .805 -.6541 -.6677 -.7570 -.6394 -.4508 -.2634  
 .897 -.6742 -.7324 -.7366 -.6321 -.4167 -.2738  
 .958 -.6551 -.6655 -.7313 -.5990 -.4004 -.2426

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AXES (1-073(CA148) -140A/B/C/R ORB SPEED BRAKE

(XEBK58)

ALPHA ( 4 ) = 7.990 BETA ( 5 ) = 8.288 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6298	-.7167	-.8228	-.6882	-.4537	-.2758
.757	-.6529	-.7482	-.8502	-.7058	.0000	-.2614
.805	-.6291	-.8145	-.8718	-.6902	-.4393	-.2566
.897	-.7530	-.9036	-.8735	-.6358	-.3942	-.2616
.968	-.8349	-.9341	-.8356	-.5924	-.3591	-.2426

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -7.852 MACH = .59656 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6523	-.7035	-.8113	-.7022	-.4913	-.2828
.757	-.6265	-.7179	-.8344	-.7072	.0000	-.2774
.805	-.6339	-.7777	-.8422	-.6757	-.4459	-.2669
.897	-.6791	-.8331	-.8627	-.6750	-.4387	-.2533
.968	-.7492	-.8765	-.8625	-.6693	-.4368	-.2591

ALPHA ( 5 ) = 11.978 BETA ( 2 ) = -3.840 MACH = .59656 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5298	-.6047	-.7005	-.6402	-.5066	-.3240
.757	-.5410	-.6340	-.7195	-.6700	.0000	-.3218
.805	-.5579	-.6467	-.7435	-.6480	-.4846	-.3199
.897	-.5943	-.6834	-.7577	-.6407	-.4590	-.3072
.968	-.6505	-.7563	-.7611	-.6159	-.4405	-.2786

ALPHA ( 5 ) = 11.991 BETA ( 3 ) = .185 MACH = .59656 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5485	-.5944	-.6992	-.6562	-.5402	-.3528
.757	-.5544	-.6044	-.7174	-.6827	.0000	-.3559
.805	-.5758	-.6391	-.7295	-.6673	-.5141	-.3428
.897	-.6090	-.6769	-.7264	-.6602	-.4938	-.3272
.968	-.6530	-.7565	-.7587	-.6469	-.4654	-.3098

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.977 BETA ( 4 ) = 4.246 MACH = .59656 Q = 594.57 P = 2386.7 RN/L = 4.8403

(XEBK68)

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.5303 -.5935 -.6920 -.6509 -.5023 -.3107  
 .757 -.5461 -.6095 -.7287 -.6539 .0000 -.3072  
 .805 -.5677 -.6453 -.7489 -.6406 -.4741 -.3036  
 .837 -.6147 -.7160 -.7408 -.6352 -.4360 -.3034  
 .868 -.6734 -.7691 -.7404 -.6075 -.4299 -.2877

ALPHA ( 5 ) = 11.959 BETA ( 5 ) = 8.309 MACH = .59656 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION 1 UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6112 -.6868 -.8151 -.7148 -.4992 -.2764  
 .757 -.6337 -.7190 -.8379 -.7242 .0000 -.2743  
 .805 -.6630 -.7608 -.8596 -.6915 -.4617 -.2738  
 .837 -.7131 -.8153 -.8403 -.6617 -.4020 -.2588  
 .868 -.7834 -.8600 -.8260 -.5968 -.3793 -.2569

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 AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEEK69) ( 13 AUG 75 )

REFERENCE DATA

REF = 100.000 CO.FT. XMP = 1075.6900 IN. X0  
 REF = 4.19000 IN. XMP = .0000 IN. Y0  
 REF = 946.0800 IN. ZMP = 375.0000 IN. Z0  
 SCALE = .0000

PARAMETRIC DATA

RUDDER = .000 SPDRK = 55.000  
 BDFLAP = 22.500 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .900

P = 599.88 P = 1058.3 RN/L = 3.6263

SECTION: ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z RV 3170 3120 5070 6020 6970 7920

100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100

ALPHA ( 1 ) = -3.991 BETA ( 2 ) = .189 MACH = .89987 0 = 599.88 P = 1058.3 RN/L = 3.6263

SECTION: ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z RV 3170 3120 5070 6020 6970 7920

100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100

ALPHA ( 1 ) = -3.991 BETA ( 3 ) = 4.272 MACH = .89987 0 = 599.88 P = 1058.3 RN/L = 3.6263

SECTION: ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z RV 3170 3120 5070 6020 6970 7920

100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100  
 100 100 100 100 100 100

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK59)

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

ALPHA ( 2 ) = .009 BETA ( 1 ) = -3.858 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6347

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708	-.4635	-.4937	-.5445	-.5910	-.5436	-.4366
.757	-.4642	-.4944	-.5719	-.5886	.0000	-.4347
.805	-.4938	-.5150	-.5941	-.6042	-.5372	-.4305
.857	-.5145	-.5807	-.6137	-.6012	-.5308	-.4191
.908	-.5357	-.6018	-.6345	-.5941	-.5138	-.4061

ALPHA ( 2 ) = .010 BETA ( 2 ) = .177 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6347

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708	-.4176	-.4443	-.4348	-.5267	-.5031	-.4209
.757	-.4214	-.4701	-.5154	-.5349	.0000	-.4253
.805	-.4413	-.4705	-.6329	-.6348	-.4128	-.4128
.857	-.4401	-.4899	-.5421	-.5490	-.4611	-.4079
.908	-.4460	-.5222	-.5579	-.5447	-.4759	-.3985

ALPHA ( 2 ) = .007 BETA ( 3 ) = -4.253 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6347

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708	-.4074	-.4853	-.5473	-.5526	-.5345	-.4215
.757	-.4111	-.4846	-.5716	-.5707	.0000	-.4146
.805	-.4193	-.4824	-.6366	-.5865	-.5197	-.4279
.857	-.4183	-.5321	-.6336	-.5881	-.5093	-.4154
.908	-.4171	-.5346	-.6211	-.5921	-.4944	-.3932

ALPHA ( 2 ) = .005 BETA ( 1 ) = -3.858 MACH = .90083 Q = 600.72 P = 1057.6 RN/L = 3.6518

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/C

.708	-.4087	-.4971	-.5923	-.5911	-.5435	-.4299
.757	-.4111	-.4975	-.5721	-.6041	.0000	-.4185
.805	-.4195	-.5140	-.6366	-.6081	-.5289	-.4157
.857	-.4183	-.5344	-.6336	-.6009	-.5176	-.4252
.908	-.4169	-.5073	-.6440	-.5951	-.5192	-.4081

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -149A/B/C ORB SPEED BRAKE (XEBK89)

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = .179 MACH = .90083 Q = 600.78 P = 1057.6 RN/L = 3.5515

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4090 -.4449 -.4971 -.5321 -.4957 -.4109  
.757 -.4225 -.4508 -.5160 -.5389 .0000 -.4050  
.815 -.4353 -.4617 -.5361 -.5446 -.4936 -.4036  
.897 -.4586 -.4852 -.5555 -.5425 -.4740 -.3943  
.988 -.4893 -.5172 -.5772 -.5489 -.4728 -.3860

ALPHA ( 3 ) = 4.005 BETA ( 3 ) = 4.240 MACH = .90083 Q = 600.76 P = 1057.6 RN/L = 3.5915

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4530 -.4265 -.5521 -.5776 -.5372 -.4083  
.757 -.4635 -.4339 -.5637 -.5844 .0000 -.4039  
.815 -.4733 -.4413 -.5701 -.5812 -.5257 -.4046  
.897 -.4827 -.4484 -.5846 -.5892 -.5146 -.4011  
.988 -.4935 -.4573 -.5945 -.5935 -.4492 -.3853

ALPHA ( 3 ) = 7.976 BETA ( 1 ) = -3.853 MACH = .89993 Q = 600.24 P = 1058.8 RN/L = 3.5857

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4712 -.4501 -.5705 -.5735 -.5453 -.4269  
.757 -.4733 -.4502 -.5939 -.5939 -.5201 -.4157  
.815 -.4737 -.4443 -.5935 -.5837 -.5387 -.4034  
.897 -.4842 -.4553 -.5936 -.5836 -.5227 -.4081  
.988 -.4944 -.4619 -.5933 -.5833 -.5118 -.3911

ALPHA ( 3 ) = 7.978 BETA ( 2 ) = .182 MACH = .89993 Q = 600.24 P = 1058.8 RN/L = 3.5857

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4912 -.4573 -.4955 -.5405 -.5159 -.3948  
.757 -.4919 -.4534 -.5277 -.5685 .0000 -.3882  
.815 -.4915 -.4544 -.5272 -.5632 -.4932 -.3939  
.897 -.4909 -.4542 -.5268 -.5579 -.4813 -.3910  
.988 -.4951 -.4565 -.5282 -.5555 -.4779 -.3704

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073-2A148 - 140A/B/C ORB SPEED BRAKE (XEBK69)

ALPHA ( 4 ) = 7.979 BETA ( 3 ) = 4.241 MACH = .89593 Q = 600.24 P = 1058.8 RN/L = 3.5957

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4581 -.4950 -.5526 -.5901 -.5374 -.4112  
 .757 -.4702 -.4997 -.5818 -.6099 .0000 -.4074  
 .805 -.4822 -.5188 -.6165 -.6198 -.5307 -.4126  
 .897 -.5214 -.5753 -.6487 -.6153 -.5194 -.4002  
 .958 -.5535 -.6189 -.6532 -.6021 -.5033 -.3887

ALPHA ( 5 ) = 11.950 BETA ( 1 ) = -3.853 MACH = .90010 Q = 600.36 P = 1058.5 RN/L = 3.5783

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.718 -.4938 -.5386 -.5907 -.6222 -.5710 -.4439  
 .757 -.4960 -.5315 -.6151 -.6357 .0000 -.4346  
 .805 -.5154 -.5507 -.6409 -.6323 -.5552 -.4254  
 .897 -.5425 -.5973 -.6705 -.6347 -.5317 -.4125  
 .958 -.5733 -.6378 -.6825 -.6236 -.5284 -.3968

ALPHA ( 5 ) = 11.955 BETA ( 2 ) = .189 MACH = .90010 Q = 600.36 P = 1058.5 RN/L = 3.5793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4454 -.4703 -.5354 -.5700 -.5269 -.4037  
 .757 -.4504 -.4823 -.5655 -.5867 .0000 -.4023  
 .805 -.4680 -.5003 -.5777 -.5818 -.4998 -.3952  
 .897 -.4837 -.5530 -.6149 -.5844 -.4782 -.3907  
 .958 -.5182 -.5976 -.6276 -.5659 -.4780 -.3904

ALPHA ( 5 ) = 11.948 BETA ( 3 ) = 4.260 MACH = .90010 Q = 600.36 P = 1058.5 RN/L = 3.5793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4816 -.5271 -.5905 -.6195 -.5526 -.4568  
 .757 -.4892 -.5388 -.6222 -.6277 .0000 -.4410  
 .805 -.5115 -.5522 -.6258 -.6223 -.5444 -.4327  
 .897 -.5446 -.6031 -.6354 -.6301 -.5359 -.4236  
 .958 -.5599 -.6466 -.6525 -.6173 -.5271 -.4144



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C CRB SPEED BRAKE

(XEBK70) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.949 BETA ( 1 ) = -7.852 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## PARAMETRIC DATA

RUDDER = .000 SPDGRK = 55.000  
 BDFLAP = 22.500 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .600

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5922 -.6272 -.7379 -.6728 -.5304 -.3595  
 .757 -.5788 -.6390 -.7398 -.6687 .0000 -.3528  
 .805 -.5979 -.6738 -.7687 -.6699 -.5030 -.3429  
 .887 -.5216 -.7369 -.7710 -.6728 -.4911 -.3311  
 .969 -.6627 -.7785 -.7926 -.6562 -.5087 -.3424

ALPHA ( 1 ) = -3.933 BETA ( 2 ) = -3.843 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4916 -.5471 -.6304 -.5957 -.4966 -.3539  
 .757 -.5013 -.5471 -.6313 -.6199 .0000 -.3461  
 .805 -.5269 -.5875 -.6772 -.6043 -.4876 -.3409  
 .887 -.5523 -.6419 -.6784 -.5944 -.4699 -.3218  
 .968 -.5993 -.6796 -.6739 -.5859 -.4540 -.3194

ALPHA ( 1 ) = -3.929 BETA ( 3 ) = .189 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4752 -.5349 -.6167 -.5998 -.4872 -.3387  
 .757 -.4985 -.5309 -.6304 -.5989 .0000 -.3267  
 .805 -.5090 -.5943 -.6535 -.5961 -.4770 -.3212  
 .887 -.5478 -.6430 -.6951 -.5833 -.4599 -.3175  
 .969 -.5788 -.6859 -.6855 -.5676 -.4322 -.2898

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AMES 11-073(0A148) -140A/B/C ORB SPEED DRAKE

(XEBK70)

ALPHA ( 1 ) = -3.935 BETA ( 4 ) = 4.269 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.4997	-.5528	-.5380	-.6125	-.4873	-.3284
.757	-.5048	-.5582	-.6695	-.6238	.0000	-.3187
.805	-.5274	-.6094	-.6570	-.6118	-.4715	-.3111
.897	-.5744	-.6651	-.6912	-.5860	-.4391	-.3096
.968	-.6195	-.7044	-.6905	-.5708	-.4223	-.2871

ALPHA ( 1 ) = -3.949 BETA ( 5 ) = 8.334 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5792	-.6351	-.7365	-.6675	-.5093	-.3434
.757	-.5837	-.6323	-.7415	-.6628	.0000	-.3422
.805	-.6156	-.6290	-.7426	-.6609	-.4938	-.3287
.897	-.6457	-.7462	-.7887	-.6336	-.4589	-.3161
.968	-.7153	-.8379	-.7778	-.5995	-.4135	-.2944

ALPHA ( 2 ) = .049 BETA ( 1 ) = -7.889 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6452	-.7488	-.8535	-.7471	-.5279	-.3070
.757	-.6559	-.7417	-.8944	-.7793	.0000	-.2909
.805	-.7011	-.8024	-.9381	-.7537	-.5077	-.2932
.897	-.7215	-.8515	-.9049	-.7154	-.4627	-.2628
.968	-.7733	-.9367	-.9301	-.6917	-.4276	-.2773

ALPHA ( 2 ) = .055 BETA ( 2 ) = -3.864 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6202	-.5797	-.6715	-.6331	-.4936	-.3399
.757	-.6378	-.5991	-.7085	-.6459	.0000	-.3261
.805	-.6456	-.6335	-.7177	-.6346	-.4794	-.3159
.897	-.6900	-.6670	-.7307	-.6168	-.4505	-.3067
.968	-.6420	-.7375	-.7267	-.6033	-.4524	-.2895

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK70)

ALPHA ( 2 ) = .055 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5058	-.5594	-.6498	-.6100	-.5122	-.3300
.757	-.5162	-.5657	-.6842	-.6316	.0000	-.3227
.805	-.5128	-.6180	-.7058	-.6185	-.4850	-.3080
.887	-.5793	-.6704	-.7115	-.6107	-.4449	-.3004
.959	-.6269	-.7250	-.7198	-.5922	-.4330	-.2809

ALPHA ( 2 ) = .055 BETA ( 4 ) = 4.251 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5372	-.6046	-.6973	-.6389	-.4980	-.3010
.757	-.5410	-.6147	-.7068	-.6444	.0000	-.3098
.805	-.5571	-.6576	-.7229	-.6392	-.4761	-.2970
.887	-.6135	-.7253	-.7654	-.6192	-.4348	-.2905
.959	-.6336	-.7707	-.7651	-.5954	-.4123	-.2726

ALPHA ( 2 ) = .051 BETA ( 5 ) = 8.306 MACH = .59578 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.6291	-.7120	-.8354	-.7049	-.4888	-.2483
.757	-.6430	-.7346	-.8628	-.7073	.0000	-.2645
.805	-.6685	-.7731	-.8659	-.7030	-.4454	-.2600
.887	-.7374	-.9158	-.8633	-.6541	-.4162	-.2375
.959	-.8261	-.9545	-.8385	-.6041	-.3617	-.2356

ALPHA ( 3 ) = 4.000 BETA ( 1 ) = -7.898 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.7008	-.7719	-.8900	-.7749	-.5725	-.3133
.757	-.7019	-.7783	-.9112	-.9004	.0000	-.3031
.805	-.7166	-.8126	-.9100	-.7692	-.5313	-.3014
.887	-.7513	-.8587	-.9251	-.7262	-.4663	-.2738
.959	-.7920	-.9071	-.9394	-.7321	-.4256	-.2448

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK70)

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = -3.861 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5455	-.6009	-.6201	-.4696	-.2778
.757	-.5384	-.6094	-.6284	.0000	-.2770
.805	-.5497	-.6765	-.6258	-.4406	-.2787
.897	-.5948	-.7240	-.7374	-.6118	-.2697
.968	-.6559	-.7796	-.7422	-.5881	-.2798

ALPHA ( 3 ) = 4.000 BETA ( 3 ) = .182 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5178	-.5525	-.6757	-.6132	-.4980
.757	-.5248	-.5832	-.6788	-.6431	.0000
.805	-.5442	-.6248	-.7036	-.6374	-.4840
.897	-.5747	-.6620	-.7228	-.6244	-.4635
.968	-.6212	-.7281	-.7181	-.5963	-.4433

ALPHA ( 3 ) = 4.003 BETA ( 4 ) = 4.239 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5441	-.6158	-.7154	-.6208	-.4232
.757	-.5804	-.6350	-.7192	-.6412	.0000
.805	-.6337	-.6903	-.7849	-.6248	-.4301
.897	-.6833	-.7422	-.7723	-.5965	-.3858
.968	-.7552	-.8128	-.7513	-.5704	-.3573

ALPHA ( 3 ) = 4.009 BETA ( 5 ) = 8.292 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6593	-.7451	-.8781	-.7277	-.5027
.757	-.6715	-.7677	-.9076	-.7538	.0000
.805	-.7041	-.8536	-.9074	-.7327	-.4764
.897	-.7907	-.9536	-.9112	-.6780	-.4184
.968	-.8733	-.9871	-.8745	-.6201	-.3918

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ALPHA ( 4 ) = 7.945 BETA ( 1 ) = -7.890 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482  
 (XEBK70)

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.6318 -.6999 -.7915 -.6919 -.4753 -.2764  
 .757 -.6259 -.7133 -.8155 -.6701 .0000 -.2636  
 .805 -.6355 -.7551 -.8291 -.6708 -.4466 -.2537  
 .887 -.6744 -.8085 -.8331 -.6480 -.4029 -.2361  
 .958 -.7312 -.8580 -.8186 -.6480 -.3775 -.2551

ALPHA ( 4 ) = 7.955 BETA ( 2 ) = -3.860 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5242 -.5939 -.6767 -.6250 -.4468 -.2825  
 .757 -.5291 -.5877 -.6942 -.6247 .0000 -.2668  
 .805 -.5369 -.6355 -.7232 -.6134 -.4158 -.2645  
 .887 -.5859 -.7218 -.7355 -.5927 -.4023 -.2646  
 .958 -.6445 -.7455 -.7372 -.5792 -.3980 -.2756

ALPHA ( 4 ) = 7.955 BETA ( 3 ) = .181 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5014 -.5512 -.6413 -.6195 -.4995 -.3392  
 .757 -.5150 -.5675 -.6550 -.6375 .0000 -.3222  
 .805 -.5330 -.6042 -.7069 -.6186 -.4822 -.3120  
 .887 -.5825 -.6625 -.6958 -.5030 -.4552 -.3133  
 .958 -.6253 -.7159 -.6938 -.5928 -.4472 -.3027

ALPHA ( 4 ) = 7.955 BETA ( 4 ) = 4.234 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.5263 -.5845 -.6983 -.6108 -.4422 -.2646  
 .757 -.5417 -.6109 -.7125 -.6224 .0000 -.2639  
 .805 -.5483 -.6473 -.7295 -.6365 -.4176 -.2658  
 .887 -.5826 -.7309 -.7291 -.5961 -.3887 -.2497  
 .958 -.6752 -.7714 -.7173 -.5591 -.3619 -.2461

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C ORB SPEED BRAKE (XEBK70)

ALPHA ( 4 ) = 7.954 BETA ( 5 ) = 8.280 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6057	-.6755	-.8055	-.6766	-.4378	-.2491
.757	-.6316	-.6927	-.8278	-.6884	.0000	-.2445
.805	-.6488	-.7355	-.8264	-.6640	-.4420	-.2353
.857	-.7308	-.8338	-.8419	-.6405	-.3901	-.2504
.908	-.8034	-.9049	-.8109	-.5712	-.3480	-.2329

ALPHA ( 5 ) = 11.925 BETA ( 1 ) = -7.848 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5182	-.5587	-.6639	-.6093	-.4795	-.3044
.757	-.5183	-.5545	-.6810	-.6221	.0000	-.3009
.805	-.5357	-.6039	-.6922	-.6119	-.4586	-.2933
.857	-.5628	-.7359	-.7138	-.5964	-.4327	-.2437
.909	-.6223	-.8440	-.7174	-.5972	-.4104	-.2425

ALPHA ( 5 ) = 11.942 BETA ( 2 ) = -3.851 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5039	-.5618	-.6584	-.6053	-.4702	-.3006
.757	-.5032	-.5634	-.6691	-.6303	.0000	-.2942
.805	-.5301	-.6171	-.6939	-.6136	-.4552	-.2871
.857	-.5722	-.6741	-.7036	-.6026	-.4376	-.2799
.909	-.6366	-.7261	-.7148	-.5793	-.4071	-.2756

ALPHA ( 5 ) = 11.947 BETA ( 3 ) = .182 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.4893	-.5568	-.6524	-.6179	-.4904	-.3253
.757	-.5080	-.5539	-.6567	-.6141	.0000	-.3134
.805	-.5401	-.6130	-.6928	-.6184	-.4809	-.3146
.857	-.5998	-.6714	-.7115	-.6172	-.4540	-.3103
.909	-.6697	-.7325	-.7053	-.6015	-.4407	-.2796

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ALPHA ( 5 ) = 11.942 BETA ( 4 ) = 4.245 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434  
(XEBK70)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5052 -.5538 -.6549 -.6222 -.4635 -.2970  
.757 -.5213 -.5611 -.6850 -.6195 .0000 -.2997  
.805 -.5439 -.6209 -.7111 -.6136 -.4410 -.2729  
.887 -.5971 -.6958 -.7184 -.5904 -.4189 -.2608  
.953 -.6475 -.7253 -.7101 -.5678 -.4038 -.2606

ALPHA ( 5 ) = 11.935 BETA ( 5 ) = 9.309 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5859 -.6694 -.7741 -.6729 -.4907 -.2552  
.757 -.6095 -.6847 -.7836 -.6890 .0000 -.2557  
.805 -.6264 -.7416 -.8070 -.6767 -.4421 -.2542  
.887 -.7106 -.8218 -.8172 -.6554 -.4068 -.2481  
.953 -.7732 -.8720 -.7975 -.5978 -.3665 -.2389

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK71) ( 13 AUG 75 )

## REFERENCE DATA

CREP = 2090 0000 SQ.FT XMRP = 1076.6800 IN. X0  
 CREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 955.0580 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -10.000  
 A-ELVN = -10.000 MACH = 1.400

ALPHA ( 1 ) = -3.946 BETA ( 1 ) = -3.857 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096  
 SECTION ( UPRIGHT HAND INSIDE )

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 DEPENDENT VARIABLE CP

## X/CV

.709 -1.5893 -1.5826 -1.6026 -1.6111 -1.5893 -1.5445  
 .757 -1.5748 -1.5855 -1.6104 -1.6097 .0000 -1.5428  
 .805 -1.5715 -1.5943 -1.6159 -1.6092 -1.5815 -1.5402  
 .853 -1.5636 -1.6035 -1.6185 -1.6047 -1.5755 -1.5349  
 .901 -1.5585 -1.6133 -1.6178 -1.5995 -1.5687 -1.5263

ALPHA ( 2 ) = -3.940 BETA ( 2 ) = .150 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096  
 SECTION ( UPRIGHT HAND INSIDE )

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 DEPENDENT VARIABLE CP

## X/CV

.709 -1.5930 -1.5859 -1.6003 -1.6029 -1.5858 -1.5573  
 .757 -1.5854 -1.5901 -1.6050 -1.6022 .0000 -1.5566  
 .805 -1.5844 -1.5939 -1.6079 -1.6022 -1.5834 -1.5569  
 .853 -1.5866 -1.6005 -1.6105 -1.6070 -1.5801 -1.5541  
 .901 -1.5894 -1.6030 -1.6119 -1.5933 -1.5687 -1.5392

ALPHA ( 3 ) = -3.946 BETA ( 3 ) = 4.272 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096  
 SECTION ( UPRIGHT HAND INSIDE )

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 DEPENDENT VARIABLE CP

## X/CV

.709 -1.5935 -1.5930 -1.5999 -1.5955 -1.5823 -1.5561  
 .757 -1.5864 -1.5933 -1.6025 -1.5958 .0000 -1.5552  
 .805 -1.5871 -1.5973 -1.6032 -1.5955 -1.5805 -1.5552  
 .853 -1.5919 -1.6029 -1.6091 -1.5951 -1.5782 -1.5534  
 .901 -1.5921 -1.6045 -1.6013 -1.5850 -1.5573 -1.5457



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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .016 BETA ( 1 ) = -3.873 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9088  
 (XEBK71)

## SECTION 1 UPRIGHT HAWK INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6058 -.5994 -.6175 -.6253 -.6061 -.5657  
 .757 -.5927 -.6027 -.6244 -.6251 .0000 -.5638  
 .805 -.5906 -.6091 -.6280 -.6242 -.5999 -.5617  
 .857 -.5972 -.6209 -.6310 -.6206 -.5947 -.5558  
 .908 -.6036 -.6257 -.6336 -.6166 -.5876 -.5477

ALPHA ( 2 ) = .022 BETA ( 2 ) = .180 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9088

## SECTION 1 UPRIGHT HAWK INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6052 -.6022 -.6122 -.6146 -.5984 -.5687  
 .757 -.5983 -.6021 -.6157 -.6144 .0000 -.5695  
 .805 -.5976 -.6067 -.6186 -.6144 -.5963 -.5678  
 .857 -.5929 -.6116 -.6209 -.6094 -.5918 -.5637  
 .908 -.6012 -.6155 -.6227 -.6037 -.5604 -.5499

ALPHA ( 2 ) = .018 BETA ( 3 ) = 4.248 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9088

## SECTION 1 UPRIGHT HAWK INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6117 -.6300 -.6099 -.6083 -.5928 -.5679  
 .757 -.5979 -.6233 -.6140 -.6078 .0000 -.5669  
 .805 -.5985 -.6371 -.6152 -.6085 -.5912 -.5667  
 .857 -.6024 -.6142 -.6151 -.6252 -.5876 -.5651  
 .908 -.6019 -.6155 -.6142 -.5965 -.5795 -.5549

ALPHA ( 3 ) = 3.951 BETA ( 1 ) = -3.877 MACH = 1.3961 Q = 600.56 P = 440.18 RN/L = 2.9092

## SECTION 1 UPRIGHT HAWK INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.6097 -.6028 -.6159 -.6234 -.6082 -.5755  
 .757 -.6002 -.6052 -.6215 -.6231 .0000 -.5743  
 .805 -.6037 -.6104 -.6243 -.6234 -.6037 -.5731  
 .857 -.6013 -.6025 -.6200 -.6209 -.6035 -.5720  
 .908 -.6053 -.6230 -.6281 -.6153 -.5832 -.5596

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AMES 11-07310A148) -140A/B/C ORB SPEED BRAKE

(XEBK71)

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .179 MACH = 1.3961 O = 600.56 P = 440.18 RN/L = 2.9092

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6106	-.6056	-.6172	-.6219	-.6060	-.5770
.757	-.6040	-.6075	-.6219	-.6210	.0000	-.5763
.805	-.6037	-.6118	-.6229	-.6212	-.6032	-.5761
.857	-.6047	-.6174	-.6260	-.6179	-.5989	-.5719
.909	-.6065	-.6219	-.6269	-.6129	-.5894	-.5584

ALPHA ( 3 ) = 3.955 BETA ( 3 ) = 4.242 MACH = 1.3961 O = 600.56 P = 440.18 RN/L = 2.9092

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6150	-.6257	-.6214	-.6248	-.6055	-.5729
.757	-.6022	-.6281	-.6264	-.6248	.0000	-.5712
.805	-.6017	-.6134	-.6293	-.6250	-.6022	-.5700
.857	-.6057	-.6237	-.6312	-.6219	-.5967	-.5663
.909	-.6090	-.6280	-.6324	-.6174	-.5907	-.5522

ALPHA ( 4 ) = 7.937 BETA ( 1 ) = -3.873 MACH = 1.3969 O = 600.27 P = 439.47 RN/L = 2.9090

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6151	-.6282	-.6202	-.6239	-.6090	-.5802
.757	-.6151	-.6106	-.6250	-.6228	.0000	-.5800
.805	-.6056	-.6151	-.6259	-.6238	-.6067	-.5788
.857	-.6084	-.6219	-.6278	-.6226	-.6014	-.5754
.909	-.6022	-.6257	-.6278	-.6167	-.5928	-.5659

ALPHA ( 4 ) = 7.992 BETA ( 2 ) = .177 MACH = 1.3969 O = 600.27 P = 439.47 RN/L = 2.9090

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6157	-.6281	-.6190	-.6233	-.6098	-.5830
.757	-.6054	-.6107	-.6233	-.6233	.0000	-.5822
.805	-.6055	-.6131	-.6242	-.6238	-.6081	-.5820
.857	-.6054	-.6209	-.6261	-.6214	-.6029	-.5782
.909	-.6078	-.6245	-.6278	-.6176	-.5936	-.5651

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK71)

ALPHA ( 4 ) = 7.892 BETA ( 3 ) = 4.237 MACH = 1.3959 Q = 600.27 P = 439.47 RN/L = 2.9090

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6220	-.6125	-.6275	-.6339	-.6187	-.5820
.757	-.6082	-.6155	-.6332	-.6347	.0000	-.5806
.805	-.6063	-.6215	-.6363	-.6354	-.6139	-.5792
.857	-.6115	-.6277	-.6387	-.6320	-.6097	-.5705
.909	-.6161	-.6318	-.6387	-.6280	-.6044	-.5601

ALPHA ( 5 ) = 11.950 BETA ( 1 ) = -3.861 MACH = 1.3964 Q = 600.16 P = 439.71 RN/L = 2.9137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6179	-.6112	-.6235	-.6266	-.6123	-.5849
.757	-.6083	-.6133	-.6278	-.6259	.0000	-.5937
.805	-.6079	-.6179	-.6292	-.6259	-.6094	-.5832
.857	-.6102	-.6252	-.6302	-.6256	-.6061	-.5806
.909	-.6121	-.6265	-.6292	-.6192	-.5975	-.5727

ALPHA ( 5 ) = 11.959 BETA ( 2 ) = .177 MACH = 1.3964 Q = 600.16 P = 439.71 RN/L = 2.9137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6242	-.6150	-.6235	-.6287	-.6163	-.5897
.757	-.6138	-.6165	-.6282	-.6287	.0000	-.5888
.805	-.6133	-.6199	-.6301	-.6296	-.6144	-.5900
.857	-.6142	-.6248	-.6306	-.6273	-.6092	-.5851
.909	-.6147	-.6277	-.6318	-.6242	-.6007	-.5708

ALPHA ( 5 ) = 11.957 BETA ( 3 ) = 4.251 MACH = 1.3964 Q = 600.16 P = 439.71 RN/L = 2.9137

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X CV

.708	-.6235	-.6127	-.6279	-.6365	-.6220	-.5834
.757	-.6057	-.6112	-.6335	-.6374	.0000	-.5820
.805	-.6055	-.6206	-.6367	-.6372	-.6165	-.5799
.857	-.6122	-.6295	-.6385	-.6351	-.6127	-.5766
.909	-.6150	-.6331	-.6384	-.6325	-.6094	-.5680

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK71)

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

ALPHA ( 6 ) = 15.903 BETA ( 1 ) = 3.840 MACH = 1.3960 Q = 600.45 P = 440.18 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6299	-.6222	-.5343	-.6350	-.6226	-.5998
.757	-.6172	-.6262	-.6403	-.6340	.0000	-.5995
.805	-.6169	-.6331	-.6404	-.6347	-.6195	-.5991
.853	-.6210	-.6378	-.6400	-.6321	-.6159	-.5955
.902	-.6241	-.6402	-.6385	-.6250	-.6119	-.5897

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .180 MACH = 1.3960 Q = 600.45 P = 440.18 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6281	-.6217	-.6333	-.6373	-.6250	-.5971
.757	-.6205	-.6229	-.6378	-.6373	.0000	-.5957
.805	-.6136	-.6227	-.6392	-.6371	-.6216	-.5959
.853	-.6200	-.6381	-.6395	-.6357	-.6169	-.5935
.902	-.6213	-.6392	-.6407	-.6314	-.6083	-.5818

ALPHA ( 6 ) = 15.910 BETA ( 3 ) = 4.280 MACH = 1.3960 Q = 600.45 P = 440.18 RN/L = 2.9185

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6345	-.6269	-.6405	-.6448	-.6301	-.5944
.757	-.6200	-.6292	-.6451	-.6463	.0000	-.5929
.805	-.6232	-.6338	-.6472	-.6451	-.6256	-.5915
.853	-.6266	-.6391	-.6494	-.6448	-.6234	-.5833
.902	-.6297	-.6423	-.6494	-.6432	-.6220	-.5733

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK72) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

## REFERENCE DATA

SPREF = 2830.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.6000 IN. YMRP = .0000 IN. YO  
 SPREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -3.854 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068  
 ALPHA ( 2 ) = -3.937 BETA ( 2 ) = .193 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068

SECTION 1 UPRIGHT HEAD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -1.7073 -1.6931 -1.7230 -1.7356 -1.7075 -1.6418  
 .757 -1.6888 -1.7016 -1.7332 -1.7370 .0000 -1.6418  
 .805 -1.6857 -1.7119 -1.7420 -1.7356 -1.6987 -1.6399  
 .857 -1.6852 -1.7357 -1.7487 -1.7299 -1.6901 -1.6351  
 .909 -1.7071 -1.7457 -1.7468 -1.7228 -1.6923 -1.6265

SECTION 2 UPRIGHT HEAD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -1.6920 -1.6927 -1.7037 -1.7082 -1.6860 -1.6443  
 .757 -1.6796 -1.6883 -1.7111 -1.7094 .0000 -1.6429  
 .805 -1.6766 -1.6956 -1.7158 -1.7096 -1.6834 -1.6457  
 .857 -1.6851 -1.7041 -1.7225 -1.7344 -1.6777 -1.6392  
 .909 -1.6927 -1.7139 -1.7249 -1.6977 -1.6660 -1.6239

SECTION 3 UPRIGHT HEAD INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -1.6841 -1.6903 -1.7105 -1.7096 -1.6891 -1.6545  
 .757 -1.6846 -1.6932 -1.7153 -1.7108 .0000 -1.6536  
 .805 -1.6856 -1.7031 -1.7194 -1.7113 -1.6865 -1.6540  
 .857 -1.6852 -1.7155 -1.7220 -1.7062 -1.6817 -1.6531  
 .909 -1.7012 -1.7334 -1.7209 -1.7010 -1.6714 -1.6433

## PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = 1.250

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK72)

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.865 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7084	-.6998	-.7220	-.7351	-.7103	-.6565
.757	-.6917	-.7031	-.7325	-.7358	.0000	-.6575
.805	-.6905	-.7115	-.7396	-.7358	-.7039	-.6563
.897	-.6976	-.7287	-.7456	-.7308	-.6965	-.6503
.958	-.7069	-.7390	-.7458	-.7241	-.6867	-.6381

ALPHA ( 2 ) = .050 BETA ( 2 ) = .176 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7063	-.7013	-.7210	-.7298	-.7051	-.6658
.757	-.6959	-.7053	-.7286	-.7305	.0000	-.6651
.805	-.6944	-.7108	-.7332	-.7305	-.7020	-.6639
.897	-.6939	-.7291	-.7386	-.7246	-.6965	-.6678
.958	-.7065	-.7377	-.7423	-.7182	-.6867	-.6492

ALPHA ( 2 ) = .045 BETA ( 3 ) = 4.247 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7066	-.7033	-.7235	-.7271	-.7061	-.6674
.757	-.6975	-.7076	-.7297	-.7261	.0000	-.6664
.805	-.6982	-.7149	-.7321	-.7263	-.7022	-.6688
.897	-.7055	-.7241	-.7380	-.7225	-.6982	-.6616
.958	-.7097	-.7315	-.7390	-.7189	-.6855	-.6458

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -3.876 MACH = 1.2481 Q = 600.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7092	-.7002	-.7154	-.7266	-.7095	-.6661
.757	-.6955	-.7069	-.7224	-.7302	.0000	-.6675
.805	-.6949	-.7085	-.7254	-.7297	-.7052	-.6646
.897	-.6965	-.7181	-.7307	-.7271	-.7009	-.6608
.958	-.7045	-.7231	-.7350	-.7216	-.6880	-.6434

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK72)

ALPHA ( 3 ) = 3.983 BETA ( 2 ) = .181 MACH = 1.2481 Q = 600.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6923 -.6892 -.7147 -.7228 -.6980 -.6544  
 .757 -.6761 -.6918 -.7190 -.7261 .0000 -.6497  
 .805 -.6842 -.7021 -.7252 -.7247 -.6971 -.6542  
 .887 -.6980 -.7161 -.7347 -.7211 -.6880 -.6498  
 .958 -.6985 -.7251 -.7373 -.7123 -.6799 -.6348

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = 4.240 MACH = 1.2481 Q = 600.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7018 -.6975 -.7278 -.7388 -.7090 -.6540  
 .757 -.6913 -.7051 -.7359 -.7390 .0000 -.6533  
 .805 -.6911 -.7144 -.7445 -.7373 -.7016 -.6531  
 .887 -.7058 -.7355 -.7511 -.7323 -.6952 -.6478  
 .958 -.7137 -.7453 -.7473 -.7257 -.6876 -.6323

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.872 MACH = 1.2470 Q = 599.90 P = 551.11 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6897 -.6925 -.7005 -.7072 -.6867 -.6441  
 .757 -.6744 -.6837 -.7043 -.7089 .0000 -.6408  
 .805 -.6766 -.6922 -.7053 -.7108 -.6862 -.6420  
 .887 -.6818 -.6970 -.7110 -.7082 -.6795 -.6326  
 .958 -.6873 -.7024 -.7182 -.7010 -.6644 -.6177

ALPHA ( 4 ) = 7.940 BETA ( 2 ) = .173 MACH = 1.2470 Q = 599.90 P = 551.11 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6565 -.6537 -.6854 -.7000 -.6749 -.6219  
 .757 -.6475 -.6547 -.6969 -.7038 .0000 -.6190  
 .805 -.6448 -.6575 -.7069 -.7029 -.6654 -.6145  
 .887 -.6504 -.6599 -.7139 -.6993 -.6599 -.6124  
 .958 -.6733 -.7023 -.7177 -.6893 -.6513 -.5994

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK72)

ALPHA ( 4 ) = 7.943 BETA ( 3 ) = 4.236 MACH = 1.2470 Q = 599.90 P = 551.81 RN/L = 3.0127

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6831 -.6800 -.7068 -.7135 -.6963 -.6325  
 .757 -.6731 -.6845 -.7125 -.7161 .0000 -.5322  
 .805 -.6724 -.6959 -.7192 -.7153 -.6801 -.6329  
 .897 -.6812 -.7142 -.7254 -.7120 -.6730 -.6240  
 .959 -.6919 -.7204 -.7278 -.7080 -.6695 -.6116

ALPHA ( 5 ) = 12.023 BETA ( 1 ) = -3.855 MACH = 1.2460 Q = 599.73 P = 551.81 RN/L = 3.0130

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6552 -.6493 -.6727 -.6768 -.6560 -.6103  
 .757 -.6435 -.6552 -.6773 -.6901 .0000 -.6134  
 .805 -.6433 -.6531 -.6801 -.6797 -.6532 -.6115  
 .897 -.6576 -.6753 -.6853 -.6789 -.6525 -.6094  
 .958 -.6514 -.6533 -.6877 -.6654 -.6363 -.6049

ALPHA ( 5 ) = 12.037 BETA ( 2 ) = .182 MACH = 1.2460 Q = 599.73 P = 551.81 RN/L = 3.0130

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6729 -.6722 -.6989 -.7158 -.6898 -.6356  
 .757 -.6629 -.6755 -.7072 -.7156 .0000 -.6340  
 .805 -.6531 -.6827 -.7136 -.7136 -.6841 -.6335  
 .897 -.6724 -.6977 -.7258 -.7156 -.6769 -.6258  
 .959 -.6837 -.7129 -.7299 -.7082 -.6655 -.6077

ALPHA ( 5 ) = 12.032 BETA ( 3 ) = 4.249 MACH = 1.2460 Q = 599.73 P = 551.81 RN/L = 3.0130

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6974 -.6792 -.7029 -.7111 -.6822 -.6301  
 .757 -.6740 -.6812 -.7106 -.7108 .0000 -.6292  
 .805 -.6898 -.7163 -.7106 -.6741 -.6280  
 .897 -.6800 -.7090 -.7225 -.7106 -.6695 -.6233  
 .958 -.6888 -.7164 -.7228 -.7058 -.6643 -.6095



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(XEBK73) ( 13 AUG 75 ) AMES 11-073(0A148) -140A/C ORB SPEED BRAKE

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0800 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
BDFLAP = 16.300 L-ELVN = -10.000  
R-ELVN = -10.000 MACH = 1.100

ALPHA ( 1 ) = -3.958 BETA ( 1 ) = -3.850 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.7888 -.7850 -.8201 -.8426 -.7998 -.7154  
.757 -.7705 -.7917 -.8350 -.8441 .0000 -.7140  
.805 -.7639 -.8005 -.8488 -.8443 -.7884 -.7114  
.837 -.7929 -.8356 -.8550 -.8407 -.7799 -.7049  
.969 -.8121 -.8647 -.8679 -.8298 -.7677 -.6863

ALPHA ( 1 ) = -3.953 BETA ( 2 ) = .190 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.728 -.7877 -.7882 -.8216 -.8431 -.8052 -.7308  
.757 -.7715 -.7942 -.8373 -.8431 .0000 -.7277  
.805 -.7718 -.8054 -.8540 -.8454 -.7954 -.7287  
.897 -.8013 -.8280 -.8654 -.8414 -.7868 -.7195  
.968 -.8182 -.8573 -.8671 -.8309 -.7739 -.7018

ALPHA ( 1 ) = -3.950 BETA ( 3 ) = 4.266 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.7933 -.7952 -.8272 -.8427 -.8048 -.7363  
.757 -.7824 -.7956 -.8432 -.8453 .0000 -.7298  
.805 -.7783 -.8116 -.8565 -.8448 -.7968 -.7313  
.897 -.8030 -.8407 -.8641 -.8420 -.7884 -.7285  
.968 -.8228 -.8646 -.8603 -.8294 -.7763 -.7098

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .047 BETA ( 1 ) = -3.859 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830  
(XEBK73)SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7602	-.7583	-.7688	-.8131	-.7764	-.6886
.757	-.7443	-.7509	-.8040	-.8181	.0000	-.5855
.805	-.7419	-.7728	-.9173	-.8200	-.7619	-.6860
.887	-.7633	-.8032	-.8356	-.8152	-.7536	-.6806
.968	-.7821	-.8313	-.8423	-.8066	-.7424	-.6630

ALPHA ( 2 ) = .052 BETA ( 2 ) = .177 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	.0000	.0000	-.8119	-.8283	.0000	.0000
.757	.0000	.0002	-.8231	-.8354	.0000	.0000
.805	.0000	.0000	-.8390	-.8342	.0000	.0000
.887	.0000	-.8244	-.8555	-.8321	.0000	-.7095
.968	.0000	-.8506	-.8566	.0000	.0000	-.6885

ALPHA ( 2 ) = .046 BETA ( 3 ) = 4.245 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7656	-.7723	-.8086	-.8181	-.7805	-.7100
.757	-.7545	-.7768	-.8195	-.8221	.0000	-.7069
.805	-.7547	-.7966	-.8357	-.8250	-.7728	-.7057
.887	-.7837	-.8249	-.8450	-.8209	-.7657	-.7005
.968	-.7992	-.8442	-.8459	-.8114	-.7528	-.6807

ALPHA ( 3 ) = 4.012 BETA ( 1 ) = -3.872 MACH = 1.0998 Q = 599.99 P = 708.60 RN/L = 3.1803

SECTION ( UPRIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.7350	-.7326	-.7646	-.7910	-.7570	-.6742
.757	-.7157	-.7381	-.7760	-.7970	.0000	-.6699
.805	-.7210	-.7495	-.7953	-.7993	-.7472	-.6702
.887	-.7400	-.7763	-.8148	-.7979	-.7351	-.6648
.968	-.7581	-.7977	-.8219	-.7898	-.7247	-.6434

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ALPHA ( 3 ) = 4.014 BETA ( 2 ) = .182 MACH = 1.0998 Q = 599.59 P = 708.60 RN/L = 3.1803  
 (XEBK73)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7468 -.7503 -.7825 -.8037 -.7673 -.6952  
 .757 -.7358 -.7572 -.8010 -.8094 .0000 -.6940  
 .805 -.7358 -.7663 -.8184 -.8115 -.7592 -.6952  
 .887 -.7610 -.7968 -.8322 -.8108 -.7513 -.6908  
 .968 -.7801 -.8235 -.8358 -.7994 -.7399 -.6698

ALPHA ( 3 ) = 4.006 BETA ( 3 ) = 4.238 MACH = 1.0998 Q = 599.99 P = 708.60 RN/L = 3.1803

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7595 -.7613 -.7962 -.8157 -.7731 -.7014  
 .757 -.7480 -.7668 -.8084 -.8208 .0000 -.6995  
 .805 -.7494 -.7818 -.8258 -.8219 -.7650 -.6988  
 .887 -.7785 -.8161 -.8400 -.8148 -.7533 -.6961  
 .968 -.7906 -.8421 -.8434 -.8055 -.7429 -.6763

ALPHA ( 4 ) = 7.976 BETA ( 1 ) = -3.868 MACH = 1.1000 Q = 599.94 P = 708.36 RN/L = 3.1794

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7231 -.7290 -.7554 -.7834 -.7508 -.6668  
 .757 -.7074 -.7357 -.7706 -.7930 .0000 -.6682  
 .805 -.7157 -.7400 -.7832 -.7937 -.7444 -.6616  
 .887 -.7321 -.7605 -.8039 -.7913 -.7311 -.6519  
 .968 -.7493 -.7862 -.8139 -.7830 -.7173 -.6374

ALPHA ( 4 ) = 7.984 BETA ( 2 ) = .174 MACH = 1.1000 Q = 599.94 P = 708.36 RN/L = 3.1794

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7365 -.7464 -.7762 -.8046 -.7641 -.6879  
 .757 -.7291 -.7510 -.7948 -.8091 .0000 -.6864  
 .805 -.7336 -.7579 -.8089 -.8148 -.7579 -.6819  
 .887 -.7572 -.7901 -.8282 -.8065 -.7443 -.6777  
 .968 -.7708 -.8149 -.8310 -.7963 -.7355 -.6572

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.994 BETA ( 3 ) = 4.233 MACH = 1.1000 Q = 599.84 P = 708.36 RN/L = 3.1794  
 (XEBK73)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7517 -.7610 -.7883 -.8064 -.7692 -.6983  
 .757 -.7379 -.7660 -.7990 -.8133 -.8000 -.6952  
 .805 -.7462 -.7715 -.8159 -.8133 -.7609 -.6942  
 .887 -.7753 -.8133 -.8323 -.8078 -.7514 -.6947  
 .968 -.7922 -.8735 -.8349 -.8028 -.7399 -.6720

ALPHA ( 5 ) = 12.067 BETA ( 1 ) = -3.848 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7373 -.7399 -.7684 -.7751 -.7539 -.6895  
 .757 -.7287 -.7485 -.7734 -.7856 -.8000 -.6892  
 .805 -.7259 -.7559 -.7804 -.7849 -.7448 -.6890  
 .887 -.7345 -.7528 -.7899 -.7844 -.7417 -.6784  
 .968 -.7571 -.7701 -.7973 -.7756 -.7250 -.6627

ALPHA ( 5 ) = 12.077 BETA ( 2 ) = .180 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7188 -.7300 -.7616 -.7816 -.7456 -.6717  
 .757 -.7105 -.7310 -.7754 -.7849 -.8000 -.6617  
 .805 -.7129 -.7410 -.7906 -.7887 -.7361 -.6667  
 .887 -.7415 -.7718 -.8071 -.7858 -.7308 -.6595  
 .968 -.7517 -.7365 -.8075 -.7804 -.7158 -.6418

ALPHA ( 5 ) = 12.075 BETA ( 3 ) = 4.245 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7417 -.7501 -.7808 -.7929 -.7558 -.6858  
 .757 -.7296 -.7517 -.7913 -.7946 -.8000 -.6820  
 .805 -.7327 -.7624 -.8072 -.7963 -.7485 -.6772  
 .887 -.7535 -.8019 -.8146 -.7934 -.7410 -.6795  
 .968 -.7674 -.8189 -.8129 -.7893 -.7334 -.6628

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK74) ( 13 AUG 75 )

REFERENCE DATA

REF = 2632.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.938 BETA ( 1 ) = -3.854 MACH = .90080 0 = 600.60 P = 1057.3 RN/L = 3.5738

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4210 -.4530 -.5038 -.5195 -.4893 -.4048  
 .757 -.4323 -.4549 -.5178 -.5428 -.0000 -.4025  
 .805 -.4468 -.4753 -.5356 -.5435 -.4832 -.3951  
 .887 -.4667 -.5153 -.5577 -.5544 -.4737 -.3835  
 .969 -.4907 -.5413 -.5663 -.5382 -.4639 -.3764

ALPHA ( 2 ) = -3.915 BETA ( 2 ) = .189 MACH = .90080 0 = 600.60 P = 1057.3 RN/L = 3.5738

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.4238 -.4354 -.4840 -.5251 -.4897 -.4164  
 .757 -.4233 -.4487 -.5066 -.5341 -.0000 -.4181  
 .805 -.4378 -.4670 -.5244 -.5324 -.4916 -.4155  
 .887 -.4549 -.4993 -.5421 -.5355 -.4786 -.4129  
 .969 -.4933 -.5300 -.5538 -.5300 -.4824 -.4034

ALPHA ( 3 ) = -3.961 BETA ( 3 ) = 4.266 MACH = .90080 0 = 600.60 P = 1057.3 RN/L = 3.5738

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.4976 -.5254 -.5716 -.6205 -.5635 -.4601  
 .757 -.5093 -.5287 -.6010 -.6285 -.0000 -.4544  
 .805 -.5173 -.5500 -.6318 -.6250 -.5483 -.4496  
 .887 -.5341 -.5910 -.6551 -.6330 -.5403 -.4421  
 .969 -.5766 -.6395 -.6689 -.6086 -.5691 -.4312

PARAMETRIC DATA

RUDDER = -5.000 SPOILER = 55.000  
 BDFLAP = 16.300 L-ELVN = -10.000  
 A-ELVN = -10.000 MACH = .900

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK74)  
ALPHA ( 2 ) = .055 BETA ( 1 ) = -3.868 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.4625 -.4758 -.5302 -.5729 -.5347 -.4188  
.757 -.4537 -.4872 -.5570 -.5817 -.0000 -.4195  
.805 -.4815 -.5079 -.5793 -.5832 -.5228 -.4133  
.857 -.5057 -.5422 -.6062 -.5760 -.5128 -.4051  
.908 -.5193 -.5844 -.6249 -.5708 -.4931 -.3956

ALPHA ( 2 ) = .084 BETA ( 2 ) = .180 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.4534 -.4716 -.5103 -.5497 -.5307 -.4426  
.757 -.4557 -.4776 -.5357 -.5683 -.0000 -.4397  
.805 -.4716 -.4892 -.5654 -.5692 -.5255 -.4319  
.857 -.4925 -.5313 -.5766 -.5726 -.5205 -.4224  
.908 -.5234 -.5561 -.5928 -.5707 -.5051 -.4122

ALPHA ( 2 ) = .055 BETA ( 3 ) = 4.248 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.5088 -.5505 -.6030 -.6286 -.5783 -.4485  
.757 -.5143 -.5511 -.6256 -.6450 -.0000 -.4345  
.805 -.5289 -.5761 -.6593 -.6545 -.5468 -.4307  
.857 -.5779 -.6271 -.6714 -.6454 -.5432 -.4237  
.908 -.6234 -.6753 -.6970 -.6277 -.5449 -.4063

ALPHA ( 3 ) = 4.001 BETA ( 1 ) = -3.875 MACH = .90140 Q = 601.01 P = 1056.6 RN/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
.708 -.4618 -.4940 -.5520 -.5897 -.5322 -.4066  
.757 -.4687 -.4978 -.5295 -.5081 -.0000 -.4080  
.805 -.4845 -.5245 -.5109 -.6090 -.5284 -.4068  
.857 -.5153 -.5553 -.5374 -.6054 -.5141 -.3751  
.908 -.5522 -.6151 -.6515 -.5959 -.4972 -.3634

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ALPHA ( 3 ) = 4.079 BETA ( 2 ) = .183 MACH = .90140 Q = 601.01 P = 1056.6 RV/L = 3.5771  
(XEBK7N)

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708 -.4541 -.4838 -.5334 -.5636 -.5348 -.4415  
.757 -.4619 -.4921 -.5517 -.5719 .0000 -.4362  
.805 -.4738 -.5042 -.5716 -.5771 -.5279 -.4367  
.857 -.5056 -.5420 -.6037 -.5776 -.5191 -.4207  
.908 -.5337 -.5669 -.6063 -.5688 -.5089 -.4093

ALPHA ( 3 ) = 4.001 BETA ( 3 ) = 4.242 MACH = .90140 Q = 601.01 P = 1056.6 RV/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708 -.5007 -.5407 -.6101 -.6296 -.5604 -.4421  
.757 -.5038 -.5495 -.6507 -.6457 .0000 -.4343  
.805 -.5256 -.5815 -.6720 -.6433 -.5507 -.4236  
.857 -.5777 -.6390 -.6926 -.6402 -.5310 -.4100  
.908 -.6116 -.6732 -.6952 -.6324 -.5106 -.3831

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.872 MACH = .90130 Q = 600.85 P = 1056.6 RV/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708 -.4926 -.5134 -.5701 -.6162 -.5663 -.4224  
.757 -.4948 -.5179 -.6031 -.6319 .0000 -.4136  
.805 -.5074 -.5400 -.6285 -.6330 -.5478 -.4143  
.857 -.5332 -.5657 -.6713 -.6295 -.5302 -.3901  
.908 -.5706 -.6447 -.6634 -.6328 -.4993 -.3749

ALPHA ( 4 ) = 8.029 BETA ( 2 ) = .177 MACH = .90130 Q = 600.85 P = 1056.6 RV/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE  
DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708 -.4598 -.5000 -.5630 -.5884 -.5483 -.4340  
.757 -.4649 -.5099 -.5857 -.6026 .0000 -.4349  
.805 -.4770 -.5253 -.6071 -.6012 -.5232 -.4176  
.857 -.5211 -.5767 -.6392 -.6019 -.5177 -.4037  
.908 -.5505 -.6188 -.6477 -.5995 -.5004 -.3956

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TABULATED PRESSURE DATA - 0A148 (AVES 11-073-1)

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(XEBK74)

AVES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

ALPHA (4) = 9.031 BETA (3) = 4.235 MACH = .90130 Q = 600.85 P = 1056.6 RN/L = 3.5771

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5247	-.5515	-.6445	-.6519	-.5807	-.4363
.757	-.5209	-.5681	-.5578	-.6635	.0000	-.4377
.805	-.5468	-.5933	-.6877	-.6571	-.5648	-.4270
.853	-.5368	-.6626	-.7145	-.6448	-.5451	-.4035
.901	-.6168	-.7035	-.7119	-.6360	-.5200	-.3878

ALPHA (5) = 11.990 BETA (1) = -3.859 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5247	-.5515	-.6445	-.6519	-.5807	-.4363
.757	-.5209	-.5681	-.5578	-.6635	.0000	-.4377
.805	-.5468	-.5933	-.6877	-.6571	-.5648	-.4270
.853	-.5368	-.6626	-.7145	-.6448	-.5451	-.4035
.901	-.6168	-.7035	-.7119	-.6360	-.5200	-.3878

ALPHA (5) = 12.020 BETA (2) = .183 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5247	-.5515	-.6445	-.6519	-.5807	-.4363
.757	-.5209	-.5681	-.5578	-.6635	.0000	-.4377
.805	-.5468	-.5933	-.6877	-.6571	-.5648	-.4270
.853	-.5368	-.6626	-.7145	-.6448	-.5451	-.4035
.901	-.6168	-.7035	-.7119	-.6360	-.5200	-.3878

ALPHA (5) = 12.054 BETA (3) = 4.256 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.5247	-.5515	-.6445	-.6519	-.5807	-.4363
.757	-.5209	-.5681	-.5578	-.6635	.0000	-.4377
.805	-.5468	-.5933	-.6877	-.6571	-.5648	-.4270
.853	-.5368	-.6626	-.7145	-.6448	-.5451	-.4035
.901	-.6168	-.7035	-.7119	-.6360	-.5200	-.3878



(XEBK75: ( 13 AUG 75 )

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 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

PARAMETRIC DATA  
 RUDDER = -5.000 SPOBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .600  
 P = 2386.4 RN/L = 4.8576

REFERENCE DATA

REF = 0000.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LEF = 474.9100 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.939 BETA ( 1 ) = -7.854 MACH = .59648 0 = 594.32 P = 2386.4 RN/L = 4.8576

SECTION ( UPRIGHT WAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.5821 -.6233 -.7076 -.6655 -.5340 -.3821  
 .757 -.5930 -.6351 -.7627 -.6863 .0000 -.3764  
 .805 -.6031 -.6834 -.7696 -.6702 -.5110 -.3698  
 .857 -.6258 -.7421 -.7637 -.6596 -.5020 -.3544  
 .909 -.6855 -.8029 -.7535 -.6433 -.5188 -.3509

ALPHA ( 1 ) = -3.939 BETA ( 2 ) = -3.848 MACH = .59648 0 = 594.32 P = 2386.4 RN/L = 4.8576

SECTION ( UPRIGHT WAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.5013 -.5329 -.6235 -.6030 -.5019 -.3530  
 .757 -.5082 -.5569 -.6559 -.6147 .0000 -.3383  
 .805 -.5295 -.6022 -.6655 -.6168 -.4817 -.3354  
 .857 -.5819 -.6680 -.6872 -.5934 -.4649 -.3230  
 .909 -.6273 -.7134 -.6837 -.5841 -.4454 -.3019

ALPHA ( 1 ) = -3.938 BETA ( 3 ) = .187 MACH = .59648 0 = 594.32 P = 2386.4 RN/L = 4.8576

SECTION ( UPRIGHT WAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
 X/CV  
 .708 -.5018 -.5538 -.6395 -.6030 -.5024 -.3543  
 .757 -.5091 -.5659 -.6584 -.6146 .0000 -.3393  
 .805 -.5302 -.6246 -.6904 -.6143 -.4745 -.3296  
 .857 -.5888 -.6977 -.7051 -.6049 -.4631 -.3223  
 .909 -.6534 -.7239 -.6945 -.5783 -.4363 -.2916

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.805 BETA ( 4 ) = 4.265 MACH = .59648 Q = 594.32 P = 2386.4 RAYL = 4.8576  
(XEBK75)

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/8V

.0000 -1.5417 -1.5962 -1.6759 -1.6236 -1.5137 -1.3538  
 .0050 -1.5499 -1.6183 -1.6993 -1.6513 -1.0000 -1.3483  
 .0100 -1.5755 -1.6632 -1.7381 -1.6331 -1.4959 -1.3474  
 .0150 -1.6442 -1.7329 -1.7174 -1.6278 -1.4758 -1.3198  
 .0200 -1.6795 -1.7495 -1.7266 -1.5959 -1.4395 -1.2987

ALPHA ( 1 ) = -3.941 BETA ( 5 ) = 8.332 MACH = .59648 Q = 594.32 P = 2386.4 RAYL = 4.8576

SECTION 2 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/8V

.0000 -1.6193 -1.6390 -1.7773 -1.6795 -1.5005 -1.3261  
 .0050 -1.6210 -1.6416 -1.7822 -1.6976 -1.0000 -1.3174  
 .0100 -1.6466 -1.6713 -1.7988 -1.6310 -1.4818 -1.3264  
 .0150 -1.7097 -1.7343 -1.7983 -1.6872 -1.5572 -1.3151  
 .0200 -1.7417 -1.7663 -1.7923 -1.6938 -1.4115 -1.2754

ALPHA ( 2 ) = -3.941 BETA ( 1 ) = -7.630 MACH = .59624 Q = 593.65 P = 2386.3 RAYL = 4.8576

SECTION 3 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/8V

.0000 -1.6193 -1.6390 -1.7773 -1.6795 -1.5005 -1.3261  
 .0050 -1.6210 -1.6416 -1.7822 -1.6976 -1.0000 -1.3174  
 .0100 -1.6466 -1.6713 -1.7988 -1.6310 -1.4818 -1.3264  
 .0150 -1.7097 -1.7343 -1.7983 -1.6872 -1.5572 -1.3151  
 .0200 -1.7417 -1.7663 -1.7923 -1.6938 -1.4115 -1.2754

ALPHA ( 3 ) = -3.941 BETA ( 2 ) = -3.883 MACH = .59624 Q = 593.85 P = 2386.3 RAYL = 4.8576

SECTION 4 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/8V

.0000 -1.6193 -1.6390 -1.7773 -1.6795 -1.5005 -1.3261  
 .0050 -1.6210 -1.6416 -1.7822 -1.6976 -1.0000 -1.3174  
 .0100 -1.6466 -1.6713 -1.7988 -1.6310 -1.4818 -1.3264  
 .0150 -1.7097 -1.7343 -1.7983 -1.6872 -1.5572 -1.3151  
 .0200 -1.7417 -1.7663 -1.7923 -1.6938 -1.4115 -1.2754

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .022 BETA ( 3 ) = .181 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579  
 (XEBK75)

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5327 -.5935 -.6931 -.6360 -.5098 -.3430  
 .757 -.5493 -.6209 -.7206 -.6557 .0000 -.3264  
 .805 -.5774 -.6703 -.7225 -.6472 -.4944 -.3245  
 .837 -.6270 -.7485 -.7303 -.6311 -.4572 -.3178  
 .868 -.6371 -.7517 -.7301 -.6029 -.4401 -.2805

ALPHA ( 2 ) = .077 BETA ( 4 ) = 4.247 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5752 -.6330 -.7076 -.6522 -.5084 -.3254  
 .757 -.5891 -.6444 -.7387 -.6486 .0000 -.3216  
 .805 -.6126 -.6702 -.7460 -.6512 -.4841 -.3168  
 .837 -.6759 -.7634 -.7527 -.6327 -.4628 -.3139  
 .868 -.7173 -.7927 -.7459 -.5834 -.4168 -.2763

ALPHA ( 2 ) = .073 BETA ( 5 ) = 8.305 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5533 -.7371 -.8176 -.6901 -.4848 -.2709  
 .757 -.6719 -.7734 -.8518 -.6991 .0000 -.2837  
 .805 -.7054 -.8037 -.8516 -.6840 -.4455 -.2674  
 .837 -.8149 -.9312 -.8528 -.6463 -.4220 -.2557  
 .868 -.8463 -.9141 -.7979 -.5639 -.3811 -.2423

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = -7.904 MACH = .59640 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/B/ .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.7230 -.7591 -.9151 -.8038 -.5665 -.3075  
 .757 -.7244 -.7335 -.8469 -.8218 .0000 -.2992  
 .805 -.7373 -.8559 -.9776 -.7903 -.5452 -.3111  
 .837 -.7563 -.9523 -.9719 -.7557 -.4823 -.2881  
 .868 -.8439 -.9338 -.9457 -.7027 -.4465 -.2547

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK75)

ALPHA ( 3 ) = 4.026 BETA ( 2 ) = -3.864 MACH = .59640 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5591	-.6207	-.7166	-.6288	-.4560	-.2614
.757	-.5692	-.6451	-.7407	-.6527	.0000	-.2510
.805	-.5839	-.6975	-.7741	-.6328	-.4409	-.2501
.837	-.6463	-.7900	-.7848	-.5994	-.3952	-.2579
.958	-.7187	-.8247	-.7478	-.5613	-.3848	-.2363

ALPHA ( 3 ) = 4.153 BETA ( 3 ) = .177 MACH = .59640 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5514	-.6035	-.7009	-.6569	-.5243	-.3469
.757	-.5648	-.6148	-.7140	-.6616	.0000	-.3356
.805	-.5858	-.6749	-.7393	-.6647	-.5077	-.3138
.837	-.6458	-.7272	-.7530	-.6453	-.4829	-.3146
.958	-.6927	-.7690	-.7493	-.6045	-.4570	-.2888

ALPHA ( 3 ) = 4.012 BETA ( 4 ) = 4.240 MACH = .59640 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.5622	-.6229	-.7124	-.6238	-.4491	-.2635
.757	-.5781	-.6493	-.7330	-.6269	.0000	-.2680
.805	-.5990	-.7033	-.7422	-.6184	-.4240	-.2838
.837	-.6530	-.7544	-.7510	-.6073	-.3868	-.2920
.958	-.7277	-.7858	-.7397	-.5421	-.3650	-.2500

ALPHA ( 3 ) = 4.017 BETA ( 5 ) = 8.288 MACH = .59640 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.6852	-.7552	-.8723	-.7223	-.4893	-.2947
.757	-.6925	-.8391	-.8785	-.7351	.0000	-.2736
.805	-.7193	-.9089	-.9946	-.7062	-.4643	-.2760
.837	-.8307	-.9547	-.8683	-.6573	-.4364	-.2629
.958	-.9725	-.9345	-.8148	-.5955	-.3798	-.2479

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ALPHA ( 4 ) = 7.959 BETA ( 1 ) = -7.893 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657  
(XEBK75)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.6515	-.7183	-.8466	-.7054	-.4561	-.2655
.757	-.6569	-.7432	-.8561	-.7109	.0000	-.2544
.805	-.6759	-.8105	-.8633	-.6687	-.4485	-.2499
.887	-.7305	-.8929	-.8795	-.6514	-.3976	-.2378
.968	-.8091	-.9053	-.8871	-.6227	-.3634	-.2420

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = -3.863 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.709	-.5498	-.5982	-.7174	-.6324	-.4422	-.2616
.757	-.5575	-.6245	-.7387	-.6487	.0000	-.2538
.805	-.5762	-.6851	-.7673	-.6364	-.4058	-.2568
.887	-.6370	-.7511	-.7619	-.5971	-.3710	-.2385
.968	-.7112	-.8262	-.7429	-.5512	-.3584	-.2336

ALPHA ( 4 ) = 8.077 BETA ( 3 ) = .178 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5380	-.5866	-.6869	-.6500	-.5265	-.3550
.757	-.5458	-.6009	-.7065	-.6734	.0000	-.3578
.805	-.5699	-.6690	-.7252	-.6651	-.5024	-.3377
.887	-.6237	-.7118	-.7496	-.6452	-.4787	-.3210
.968	-.6742	-.7630	-.7453	-.6284	-.4584	-.2996

ALPHA ( 4 ) = 8.079 BETA ( 4 ) = 4.235 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.5570	-.6064	-.6897	-.6211	-.4665	-.2881
.757	-.5631	-.6270	-.7131	-.6447	.0000	-.2668
.805	-.5875	-.6730	-.7269	-.6291	-.4457	-.2947
.887	-.6513	-.7215	-.7387	-.6014	-.4114	-.2714
.968	-.7097	-.7704	-.7314	-.5673	-.3650	-.2588

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.076 BETA ( 5 ) = 8.296 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657  
 (XEBK75)

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6382 -.7195 -.8010 -.6682 -.4317 -.2698  
 .757 -.6577 -.7698 -.8186 -.6566 .0000 -.2702  
 .805 -.6833 -.8371 -.8376 -.6471 -.4061 -.2674  
 .887 -.7854 -.8768 -.8088 -.6074 -.3952 -.2624  
 .959 -.8368 -.8643 -.7567 -.5330 -.3455 -.2507

ALPHA ( 5 ) = 11.984 BETA ( 1 ) = -7.850 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6410 -.7051 -.8220 -.6984 -.4652 -.2536  
 .757 -.6412 -.7300 -.8386 -.7069 .0000 -.2596  
 .805 -.6544 -.7930 -.8626 -.6851 -.4307 -.2383  
 .887 -.7014 -.8631 -.8817 -.6690 -.4077 -.2366  
 .959 -.7863 -.9065 -.8496 -.6368 -.3971 -.2434

ALPHA ( 5 ) = 12.003 BETA ( 2 ) = -3.840 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.6354 -.7578 -.6937 -.6258 -.4833 -.3047  
 .757 -.5510 -.6205 -.7051 -.6791 .0000 -.3043  
 .805 -.5573 -.6405 -.7312 -.6431 -.4493 -.3026  
 .887 -.6186 -.7243 -.7324 -.6149 -.4260 -.2777  
 .959 -.6755 -.7509 -.7234 -.5826 -.4011 -.2511

ALPHA ( 5 ) = 12.008 BETA ( 3 ) = .180 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CO

.708 -.5624 -.6059 -.7031 -.6632 -.5269 -.3473  
 .757 -.5553 -.6025 -.7378 -.6737 .0000 -.3375  
 .805 -.5236 -.5710 -.7597 -.6803 -.5138 -.3323  
 .887 -.6347 -.7142 -.7506 -.6499 -.4701 -.3110  
 .959 -.7054 -.7750 -.7625 -.6171 -.4383 -.2590

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 12.057 BETA ( 4 ) = 4.244 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671  
 (XEBK75)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.5432 -.6011 -.7083 -.6427 -.4877 -.2927  
 .757 -.5545 -.6230 -.7202 -.6540 .0000 -.3041  
 .805 -.5907 -.6822 -.7372 -.6550 -.4662 -.2913  
 .897 -.6519 -.7545 -.7431 -.6254 -.4318 -.2788  
 .958 -.7154 -.7828 -.7301 -.5929 -.3712 -.2577

ALPHA ( 5 ) = 12.114 BETA ( 5 ) = 8.307 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.6383 -.6959 -.7758 -.6609 -.4838 -.2903  
 .757 -.6512 -.7347 -.7874 -.6716 .0000 -.2842  
 .805 -.5599 -.7859 -.7902 -.6624 -.4360 -.2866  
 .887 -.7384 -.8288 -.7879 -.6245 -.4121 -.2890  
 .958 -.7887 -.8286 -.7490 -.5759 -.3713 -.2738

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XERK76) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 935.0600 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.004 BETA ( 1 ) = -3.853 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

## SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2756 -.2923 -.2956 -.3394 -.2411 -.3375  
 .757 -.3303 -.3110 -.3196 -.3463 .0000 -.3370  
 .805 -.3327 -.3301 -.3418 -.3605 -.3535 -.3385  
 .887 -.3943 -.3718 -.3751 -.3877 -.3684 -.3416  
 .959 -.4268 -.4139 -.4322 -.4337 -.4136 -.3838

ALPHA ( 2 ) = -4.001 BETA ( 2 ) = .191 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

## SECTION ( 2 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2729 -.2987 -.2900 -.3330 -.3352 -.3323  
 .757 -.3329 -.3066 -.3117 -.3409 .0000 -.3316  
 .805 -.3458 -.3262 -.3342 -.3538 -.3474 -.3332  
 .887 -.3921 -.3652 -.3653 -.3801 -.3619 -.3386  
 .959 -.4311 -.4057 -.4220 -.4267 -.4081 -.3837

ALPHA ( 3 ) = -3.383 BETA ( 3 ) = 4.275 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

## SECTION ( 3 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/8V .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2872 -.2756 -.2752 -.3255 -.3284 -.3267  
 .757 -.3046 -.2941 -.2987 -.3320 .0000 -.3260  
 .805 -.3151 -.3137 -.3217 -.3452 -.3392 -.3260  
 .887 -.3684 -.3526 -.3540 -.3711 -.3517 -.3286  
 .959 -.4341 -.3974 -.4130 -.4190 -.3900 -.3641

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.400



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .029 BETA ( 1 ) = -3.866 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093  
(XEBK76)

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2863 -.3031 -.3058 -.3623 -.3686 -.3666  
.757 -.3423 -.3227 -.3288 -.3700 -.3676  
.805 -.3521 -.3435 -.3551 -.3827 -.3803 -.3686  
.867 -.3935 -.3821 -.3925 -.4100 -.3944 -.3716  
.958 -.4409 -.4387 -.4567 -.4581 -.4392 -.4099

ALPHA ( 2 ) = .033 BETA ( 2 ) = .181 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2799 -.2974 -.2987 -.3542 -.3600 -.3576  
.757 -.3395 -.3158 -.3224 -.3612 -.3600 -.3583  
.805 -.3535 -.3355 -.3463 -.3736 -.3710 -.3600  
.867 -.3946 -.3768 -.3813 -.4000 -.3844 -.3667  
.958 -.4422 -.4219 -.4418 -.4478 -.4296 -.4096

ALPHA ( 2 ) = .029 BETA ( 3 ) = 4.255 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2709 -.2862 -.2899 -.3473 -.3576 -.3535  
.757 -.3218 -.3070 -.3136 -.3545 -.3552  
.805 -.3328 -.3278 -.3382 -.3650 -.3664  
.867 -.3797 -.3593 -.3724 -.3917 -.3772 -.3612  
.958 -.4514 -.4419 -.4540 -.4407 -.4166 -.3937

ALPHA ( 3 ) = 3.961 BETA ( 1 ) = -3.871 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION 1 UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2756 -.2961 -.3045 -.3788 -.3919 -.3905  
.757 -.3083 -.3132 -.3307 -.3855 -.3926  
.805 -.3193 -.3336 -.3582 -.3972 -.4034 -.3946  
.867 -.3524 -.3781 -.3989 -.4254 -.4165 -.3994  
.958 -.4253 -.4408 -.4577 -.4732 -.4610 -.4363

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK76)

ALPHA ( 3 ) = 3.962 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2904	-.3056	-.3070	-.3723	-.3840	-.3818
.757	-.3438	-.3247	-.3327	-.3790	.0000	-.3830
.805	-.3570	-.3445	-.3563	-.3914	-.3945	-.3859
.857	-.3963	-.3831	-.3928	-.4178	-.4076	-.3905
.908	-.4517	-.4304	-.4574	-.4658	-.4498	-.4302

ALPHA ( 3 ) = 3.963 BETA ( 3 ) = 4.246 MACH = 1.3919 Q = 598.88 P = 442.29 RN/L = 2.9174

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2877	-.3044	-.3054	-.3592	-.3817	-.3800
.757	-.3453	-.3233	-.3293	-.3740	.0000	-.3814
.805	-.3583	-.3448	-.3534	-.3948	-.3903	-.3828
.857	-.4027	-.3853	-.3843	-.4096	-.4022	-.3874
.908	-.4673	-.4279	-.4421	-.4546	-.4385	-.4181

ALPHA ( 3 ) = 7.897 BETA ( 1 ) = -3.866 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9153

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2545	-.2789	-.2909	-.3877	-.4104	-.4083
.757	-.2775	-.2940	-.3181	-.3908	.0000	-.4111
.805	-.2816	-.3148	-.3458	-.4040	-.4197	-.4150
.857	-.3143	-.3628	-.3699	-.4346	-.4339	-.4205
.908	-.3975	-.4520	-.4668	-.4822	-.4767	-.4549

ALPHA ( 3 ) = 7.964 BETA ( 2 ) = .189 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9153

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2878	-.3019	-.3096	-.3893	-.4060	-.4036
.757	-.3353	-.3222	-.3347	-.3922	.0000	-.4065
.805	-.3426	-.3432	-.3656	-.4039	-.4151	-.4103
.857	-.3741	-.3901	-.3950	-.4302	-.4273	-.4146
.908	-.4391	-.4269	-.4582	-.4759	-.4663	-.4524

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK76)

ALPHA ( 4 ) = 7.951 BETA ( 3 ) = 4.247 MACH = 1.3932 O = 600.00 P = 441.59 RN/L = 2.9153

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3064	-.3239	-.3265	-.3925	-.4059	-.4042
.757	-.3788	-.3442	-.3492	-.3966	.0000	-.4052
.805	-.3949	-.3683	-.3738	-.4076	-.4143	-.4085
.857	-.4505	-.4111	-.4052	-.4298	-.4260	-.4138
.958	-.5019	-.4516	-.4563	-.4704	-.4602	-.4420

ALPHA ( 5 ) = 11.871 BETA ( 1 ) = -3.849 MACH = 1.3930 O = 600.10 P = 441.82 RN/L = 2.9227

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2624	-.2861	-.2969	-.4009	-.4296	-.4294
.757	-.2803	-.2937	-.3237	-.4040	.0000	-.4318
.805	-.2624	-.3205	-.3543	-.4157	-.4389	-.4365
.857	-.3183	-.3659	-.3983	-.4463	-.4516	-.4405
.958	-.4039	-.4367	-.4793	-.4937	-.4889	-.4721

ALPHA ( 5 ) = 11.913 BETA ( 2 ) = .191 MACH = 1.3930 O = 600.10 P = 441.82 RN/L = 2.9227

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2945	-.3124	-.3173	-.4042	-.4267	-.4257
.757	-.3435	-.3287	-.3417	-.4085	.0000	-.4269
.805	-.3493	-.3481	-.3678	-.4188	-.4346	-.4308
.857	-.3549	-.3926	-.4040	-.4425	-.4468	-.4371
.958	-.4478	-.4437	-.4676	-.4901	-.4837	-.4733

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.262 MACH = 1.3930 O = 600.10 P = 441.82 RN/L = 2.9227

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .412 .5070 .6020 .6970 .7920

X/CV

.708	-.3065	-.3261	-.3283	-.4017	-.4203	-.4191
.757	-.3923	-.3474	-.3522	-.4045	.0000	-.4210
.805	-.4029	-.3684	-.3766	-.4127	-.4280	-.4237
.857	-.4564	-.4140	-.4062	-.4318	-.4371	-.4291
.958	-.5046	-.4581	-.4528	-.4645	-.4691	-.4542

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ALPHA ( 6 ) = 15.905 BETA ( 1 ) = -3.830 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208 (XEBK76)

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2836 -.3055 -.3171 -.4197 -.4472 -.4462  
 .757 -.3089 -.3223 -.3422 -.4216 .0000 -.4501  
 .805 -.3187 -.3407 -.3695 -.4340 -.4563 -.4537  
 .887 -.3514 -.3876 -.4147 -.4637 -.4680 -.4617  
 .968 -.4324 -.4546 -.4921 -.5091 -.5039 -.4919

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .190 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3126 -.3358 -.3373 -.4226 -.4447 -.4468  
 .757 -.3283 -.3547 -.3662 -.4284 .0000 -.4487  
 .805 -.3396 -.3755 -.3906 -.4413 -.4545 -.4523  
 .887 -.4224 -.4165 -.4279 -.4674 -.4657 -.4605  
 .968 -.4791 -.4677 -.4942 -.5107 -.5006 -.4902

ALPHA ( 6 ) = 15.907 BETA ( 3 ) = 4.290 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208

SECTION 1 (RIGHT HAND) INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3339 -.3504 -.3553 -.4288 -.4463 -.4432  
 .757 -.3662 -.3719 -.3795 -.4314 .0000 -.4460  
 .805 -.4270 -.3944 -.4025 -.4401 -.4530 -.4496  
 .887 -.4806 -.4331 -.4336 -.4642 -.4626 -.4525  
 .968 -.5233 -.4721 -.4708 -.5021 -.4961 -.4762

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C ORB SPEED BRAKE (XE8K77) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 ZREF = 936.0690 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0320

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -3.849 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0204  
 ALPHA ( 2 ) = -4.011 BETA ( 2 ) = .186 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0204

## SECTION ( 1 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3284 -.3304 -.3425 -.4267 -.4413 -.4366  
 .757 -.3549 -.3505 -.3686 -.4327 .0000 -.4387  
 .805 -.3593 -.3749 -.3995 -.4480 -.4550 -.4423  
 .897 -.4058 -.4251 -.4456 -.4830 -.4722 -.4474  
 .968 -.4482 -.4919 -.5225 -.5428 -.5261 -.4987

## SECTION ( 2 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.3035 -.3262 -.3311 -.4155 -.4342 -.4320  
 .757 -.3521 -.3442 -.3575 -.4205 .0000 -.4327  
 .805 -.3578 -.3562 -.3836 -.4311 -.4464 -.4366  
 .897 -.4093 -.4279 -.4215 -.4615 -.4613 -.4420  
 .968 -.4859 -.4539 -.4821 -.5155 -.5135 -.4930

## SECTION ( 3 ) UPRIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2776 -.3230 -.3110 -.3985 -.4167 -.4128  
 .757 -.3140 -.3243 -.3409 -.4025 .0000 -.4164  
 .805 -.3241 -.3471 -.3580 -.4152 -.4255 -.4174  
 .897 -.3935 -.3993 -.4083 -.4418 -.4375 -.4235  
 .968 -.4892 -.4583 -.4739 -.4936 -.4809 -.4602

## PARAMETRIC DATA

RUDDER = -10.000 SPDRBK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.250

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .012 BETA ( 1 ) = -3.863 MACH = 1.2451 0 = 599.58 P = 552.51 RN/L = 3.0183  
 (XEBK77)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X-CV

.708 -.2970 -.3200 -.3304 -.4412 -.4675 -.4656  
 .757 -.3289 -.3385 -.3615 -.4452 .0000 -.4682  
 .805 -.3366 -.3617 -.3947 -.4584 -.4802 -.4723  
 .827 -.3783 -.4112 -.4414 -.4933 -.4957 -.4792  
 .868 -.4564 -.4763 -.5228 -.5520 -.5467 -.5271

ALPHA ( 2 ) = .014 BETA ( 2 ) = .176 MACH = 1.2451 0 = 599.58 P = 552.51 RN/L = 3.0183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X-CV

.708 -.2958 -.3305 -.3365 -.4353 -.4595 -.4586  
 .757 -.3552 -.3506 -.3643 -.4372 .0000 -.4622  
 .805 -.3605 -.3722 -.3921 -.4483 -.4706 -.4655  
 .827 -.4114 -.4183 -.4317 -.4770 -.4849 -.4741  
 .868 -.4934 -.4893 -.4953 -.5262 -.5348 -.5240

ALPHA ( 2 ) = .026 BETA ( 3 ) = 4.255 MACH = 1.2451 0 = 599.58 P = 552.51 RN/L = 3.0183

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X-CV

.708 -.2971 -.3229 -.3285 -.4271 -.4525 -.4508  
 .757 -.3395 -.3423 -.3570 -.4288 .0000 -.4525  
 .805 -.3474 -.3584 -.3864 -.4405 -.4603 -.4553  
 .827 -.4074 -.4230 -.4283 -.4690 -.4718 -.4632  
 .868 -.5123 -.4674 -.4970 -.5166 -.5127 -.5011

ALPHA ( 3 ) = 3.997 BETA ( 1 ) = -3.868 MACH = 1.2451 0 = 599.58 P = 552.51 RN/L = 3.0187

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X-CV

.708 -.2919 -.3138 -.3267 -.4536 -.4924 -.4919  
 .757 -.3037 -.3289 -.3586 -.4539 .0000 -.4958  
 .805 -.3109 -.3482 -.3902 -.4680 -.5025 -.4991  
 .827 -.3535 -.4234 -.4378 -.5037 -.5183 -.5080  
 .868 -.4493 -.4726 -.5187 -.5573 -.5681 -.5528

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.239 BETA ( 2 ) = .192 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0187  
 (XEBK77)

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3084 -.3309 -.3386 -.4470 -.4832 -.4817  
 .757 -.3455 -.3501 -.3700 -.4479 -.0000 -.4858  
 .805 -.3534 -.3723 -.3957 -.4570 -.4913 -.4899  
 .887 -.3937 -.4201 -.4352 -.4846 -.5040 -.4988  
 .968 -.4802 -.4791 -.4949 -.5261 -.5467 -.5458

ALPHA ( 3 ) = 3.988 BETA ( 3 ) = 4.246 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0187

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3235 -.3483 -.3512 -.4523 -.4794 -.4806  
 .757 -.3765 -.3703 -.3814 -.4535 -.0000 -.4830  
 .805 -.3827 -.3950 -.4121 -.4631 -.4869 -.4864  
 .887 -.4417 -.4487 -.4480 -.4869 -.4967 -.4933  
 .968 -.5358 -.5154 -.5058 -.5209 -.5302 -.5224

ALPHA ( 4 ) = 7.974 BETA ( 1 ) = -3.859 MACH = 1.2449 Q = 599.64 P = 552.75 RN/L = 3.0238

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2771 -.3101 -.3220 -.4621 -.5114 -.5131  
 .757 -.2938 -.3252 -.3555 -.4619 -.0000 -.5169  
 .805 -.3039 -.3465 -.3867 -.4738 -.5203 -.5217  
 .887 -.3429 -.3979 -.4384 -.5088 -.5351 -.5319  
 .968 -.4452 -.4650 -.5172 -.5593 -.5833 -.5722

ALPHA ( 4 ) = 7.979 BETA ( 2 ) = .184 MACH = 1.2449 Q = 599.64 P = 552.75 RN/L = 3.0238

SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3016 -.3290 -.3392 -.4587 -.5016 -.5033  
 .757 -.3528 -.3438 -.3655 -.4550 -.0000 -.5059  
 .805 -.3762 -.3576 -.4011 -.4668 -.5071 -.5114  
 .887 -.4784 -.4729 -.4416 -.4918 -.5181 -.5186  
 .968 -.4733 -.4689 -.5033 -.5251 -.5534 -.5585

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK77)

ALPHA ( 4 ) = 7.978 BETA ( 3 ) = 4.242 MACH = 1.2449 Q = 599.64 P = 552.75 RN/L = 3.0238

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3525	-.3719	-.3760	-.4725	-.5044	-.5042
.757	-.4282	-.4249	-.4042	-.4733	-.0000	-.5063
.805	-.4313	-.4210	-.4323	-.4826	-.5085	-.5104
.857	-.4792	-.4729	-.4692	-.5030	-.5178	-.5170
.898	-.5545	-.4500	-.5212	-.5296	-.5449	-.5417

ALPHA ( 5 ) = 11.951 BETA ( 1 ) = -3.847 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0229

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2935	-.3221	-.3352	-.4779	-.5325	-.5347
.750	-.3165	-.3345	-.3677	-.4755	.0000	-.5378
.806	-.3111	-.3595	-.4003	-.4889	-.5383	-.5433
.857	-.3439	-.4032	-.4513	-.5241	-.5536	-.5509
.898	-.4554	-.4806	-.5294	-.5756	-.5955	-.5856

ALPHA ( 6 ) = 11.970 BETA ( 2 ) = .192 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0229

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2170	-.3389	-.3459	-.4706	-.5193	-.5212
.750	-.3118	-.3519	-.3775	-.4697	.0000	-.5245
.806	-.3154	-.3772	-.4072	-.4795	-.5226	-.5291
.857	-.3851	-.4215	-.4593	-.5039	-.5336	-.5403
.898	-.4782	-.5053	-.5125	-.5360	-.5635	-.5744

ALPHA ( 7 ) = 11.982 BETA ( 3 ) = -.260 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0229

SECTION 1 ( RIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3689	-.3892	-.3887	-.4918	-.5230	-.5234
.757	-.4675	-.4127	-.4191	-.4911	.0000	-.5263
.805	-.4549	-.4331	-.4496	-.4985	-.5270	-.5294
.857	-.5091	-.4852	-.4817	-.5150	-.5326	-.5336
.898	-.5675	-.5502	-.5302	-.5389	-.5573	-.5516



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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

REFERENCE DATA  
 XREF = 2022.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 YREF = 474.9000 IN. YMRP = .0000 IN. YO  
 ZREF = 936.0890 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300  
 RUDDER = -10.000 SPDERK = -.000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.100  
 ALPHA ( 1 ) = -4.052 BETA ( 1 ) = -3.838 MACH = 1.0993 Q = 599.81 P = 709.06 RN/L = 3.1886

SECTION ( 1 ) RIGHT HAND INSIDE				DEPENDENT VARIABLE CP			
Z (B)	X (C)	Y (D)	ALPHA ( 1 )	BETA ( 1 )	MACH	Q	P
.3170	.4120	.5070	.6020	.6970	.7920		
.709	.757	.805	.853	.901	.949		
.999	.999	.999	.999	.999	.999		
ALPHA ( 1 ) = -4.052	BETA ( 1 ) = -3.838	MACH = 1.0993	Q = 599.81	P = 709.06	RN/L = 3.1886		

SECTION ( 2 ) RIGHT HAND INSIDE				DEPENDENT VARIABLE CP			
Z (B)	X (C)	Y (D)	ALPHA ( 2 )	BETA ( 2 )	MACH	Q	P
.3170	.4120	.5070	.6020	.6970	.7920		
.709	.757	.805	.853	.901	.949		
.999	.999	.999	.999	.999	.999		
ALPHA ( 2 ) = -4.052	BETA ( 2 ) = -3.838	MACH = 1.0993	Q = 599.81	P = 709.06	RN/L = 3.1886		

SECTION ( 3 ) RIGHT HAND INSIDE				DEPENDENT VARIABLE CP			
Z (B)	X (C)	Y (D)	ALPHA ( 3 )	BETA ( 3 )	MACH	Q	P
.3170	.4120	.5070	.6020	.6970	.7920		
.709	.757	.805	.853	.901	.949		
.999	.999	.999	.999	.999	.999		
ALPHA ( 3 ) = -4.052	BETA ( 3 ) = -3.838	MACH = 1.0993	Q = 599.81	P = 709.06	RN/L = 3.1886		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK78)

ALPHA ( 2 ) = .040 BETA ( 1 ) = -3.863 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2941 -.3326 -.3496 -.5143 -.5901 -.5966  
 .757 -.3213 -.3502 -.3833 -.5057 .0000 -.6011  
 .805 -.3287 -.3761 -.4201 -.5122 -.5882 -.6076  
 .887 -.3811 -.4322 -.4665 -.5425 -.6002 -.6208  
 .958 -.4856 -.5014 -.5351 -.5760 -.6372 -.6680

ALPHA ( 2 ) = .041 BETA ( 2 ) = .186 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3026 -.3409 -.3524 -.4974 -.5584 -.5620  
 .757 -.3402 -.3605 -.3859 -.4950 .0000 -.5651  
 .805 -.3459 -.3859 -.4185 -.5055 -.5615 -.5687  
 .887 -.4035 -.4473 -.4639 -.5338 -.5730 -.5769  
 .958 -.5016 -.5263 -.5328 -.5732 -.6053 -.5948

ALPHA ( 2 ) = .035 BETA ( 3 ) = 4.252 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3169 -.3550 -.3696 -.5143 -.5691 -.5714  
 .757 -.3599 -.3824 -.4047 -.5088 .0000 -.5774  
 .805 -.3681 -.4111 -.4413 -.5207 -.5722 -.5769  
 .887 -.4399 -.4771 -.4923 -.5504 -.5820 -.5789  
 .958 -.5720 -.5794 -.5647 -.5992 -.6231 -.5995

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -3.864 MACH = 1.0989 Q = 599.58 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2890 -.3335 -.3493 -.5227 -.6073 -.6169  
 .757 -.3175 -.3527 -.3848 -.5153 .0000 -.6236  
 .805 -.3263 -.3788 -.4210 -.5244 -.6047 -.6284  
 .887 -.3877 -.4399 -.4555 -.5484 -.6090 -.6395  
 .958 -.4928 -.5151 -.5366 -.5742 -.6190 -.6651

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ALPHA ( 3 ) = 4.004 BETA ( 2 ) = .194 MACH = 1.0989 Q = 599.58 P = 709.30 RN/L = 3.1896  
 (XEBK78)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2995 -.3356 -.3503 -.5121 -.5856 -.5906  
 .757 -.3306 -.3545 -.3843 -.5064 .0000 -.5954  
 .805 -.3359 -.3796 -.4185 -.5157 -.5866 -.5952  
 .887 -.3861 -.4355 -.4647 -.5432 -.5947 -.6068  
 .969 -.4873 -.5179 -.5337 -.5765 -.6191 -.6142

ALPHA ( 3 ) = 4.004 BETA ( 3 ) = 4.242 MACH = 1.0989 Q = 599.58 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.3096 -.3477 -.3654 -.5159 -.5751 -.5772  
 .757 -.3419 -.3695 -.3995 -.5106 .0000 -.5803  
 .805 -.3498 -.3994 -.4349 -.5236 -.5772 -.5861  
 .887 -.4150 -.4627 -.4840 -.5466 -.5873 -.5884  
 .969 -.5474 -.5611 -.5513 -.5870 -.6165 -.6040

ALPHA ( 4 ) = 8.022 BETA ( 1 ) = -3.857 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2779 -.3255 -.3440 -.5266 -.6178 -.6329  
 .757 -.3002 -.3416 -.3797 -.5165 .0000 -.6324  
 .805 -.3100 -.3708 -.4177 -.5295 -.6156 -.6422  
 .887 -.3727 -.4247 -.4699 -.5544 -.6132 -.6475  
 .968 -.4830 -.5127 -.5367 -.5805 -.6080 -.6505

ALPHA ( 4 ) = 8.002 BETA ( 2 ) = .186 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2928 -.3347 -.3509 -.5209 -.6028 -.6088  
 .757 -.3211 -.3524 -.3868 -.5139 .0000 -.6133  
 .805 -.3275 -.3776 -.4215 -.5266 -.6026 -.6176  
 .887 -.3803 -.4369 -.4701 -.5537 -.6112 -.6226  
 .968 -.4898 -.5191 -.5350 -.5851 -.6310 -.6226

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK78)  
 ALPHA ( 4 ) = 7.997 BETA ( 3 ) = 4.238 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.3201	-.3604	-.3738	-.5186	-.5802	-.5811
.757	-.3525	-.3773	-.4090	-.5146	.0000	-.5952
.805	-.3582	-.4025	-.4418	-.5246	-.5814	-.5905
.857	-.4216	-.4626	-.4914	-.5543	-.5931	-.5926
.968	-.5487	-.5414	-.5637	-.5996	-.6233	-.6127
ALPHA ( 5 ) = 11.963	BETA ( 1 ) = -3.838	MACH = 1.0980	Q = 599.15	P = 710.01	RN/L = 3.1917	

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.2956	-.3425	-.3608	-.5315	-.6207	-.6315
.757	-.3205	-.3641	-.3941	-.5224	.0000	-.6363
.805	-.3320	-.3866	-.4320	-.5115	-.6118	-.6382
.857	-.3941	-.4469	-.4783	-.5928	-.6085	-.6413
.958	-.4952	-.5336	-.5389	-.5703	-.5878	-.6356
ALPHA ( 5 ) = 11.967	BETA ( 2 ) = .194	MACH = 1.0980	Q = 599.15	P = 710.01	RN/L = 3.1917	

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.3117	-.3586	-.3750	-.5428	-.6128	-.6235
.757	-.3375	-.3744	-.4110	-.5394	.0000	-.6231
.805	-.3473	-.4010	-.4498	-.5490	-.6130	-.6267
.857	-.4031	-.4540	-.5001	-.5799	-.6199	-.6353
.968	-.5241	-.5532	-.5713	-.6099	-.6394	-.6351
ALPHA ( 5 ) = 11.958	BETA ( 3 ) = 4.256	MACH = 1.0980	Q = 599.15	P = 710.01	RN/L = 3.1917	

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV	.3170	.4120	.5070	.6020	.6970	.7920
X/CV						
.708	-.3499	-.3804	-.3957	-.5223	-.5712	-.5719
.757	-.3931	-.3981	-.4220	-.5206	.0000	-.5727
.805	-.4008	-.4229	-.4535	-.5283	-.5760	-.5762
.857	-.4569	-.4764	-.5062	-.5547	-.5846	-.5842
.968	-.5553	-.5213	-.5873	-.5966	-.6187	-.6113

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK79) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = .900

ALPHA ( 1 ) = -4.051 BETA ( 1 ) = -3.840 MACH = .89997 Q = 600.24 P = 1058.8 RN/L = 3.5827

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1836 -.2062 -.2217 -.3143 -.2179 -.3167  
 .757 -.1951 -.2200 -.2419 -.3103 .0000 -.3272  
 .805 -.1989 -.2308 -.2710 -.3248 -.3226 -.3210  
 .887 -.2258 -.2486 -.3214 -.3474 -.3191 -.3219  
 .968 -.2753 -.2811 -.4476 -.3526 -.3041 -.3170

ALPHA ( 1 ) = -4.055 BETA ( 2 ) = .202 MACH = .89997 Q = 600.24 P = 1058.8 RN/L = 3.5827

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2008 -.2151 -.2248 -.2912 -.2900 -.2822  
 .757 -.2098 -.2293 -.2470 -.3015 .0000 -.2893  
 .805 -.2103 -.2348 -.2720 -.3131 -.2750 -.2800  
 .887 -.2384 -.2493 -.3191 -.3472 -.2996 -.2707  
 .968 -.2291 -.2555 -.4341 -.3898 -.3027 -.2603

ALPHA ( 1 ) = -4.070 BETA ( 3 ) = 4.283 MACH = .89997 Q = 600.24 P = 1058.8 RN/L = 3.5827

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2124 -.2114 -.2181 -.2644 -.2708 -.2623  
 .757 -.2169 -.2176 -.2209 -.2647 .0000 -.2628  
 .805 -.2183 -.2212 -.2257 -.2768 -.2801 -.2673  
 .887 -.2297 -.2371 -.2433 -.3079 -.2894 -.2597  
 .968 -.3108 -.2204 -.2735 -.3821 -.3053 -.2616

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C OR8 SPEED BRAKE (XEBK79)

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.859 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1648	-.1815	-.1849	-.2553	-.2645	-.2576
.757	-.1746	-.1917	-.2015	-.2527	.0000	-.2821
.805	-.1788	-.1967	-.2168	-.2698	-.2741	-.2527
.857	-.2019	-.2041	-.2353	-.3195	-.2790	-.2529
.909	-.2511	-.2156	-.2848	-.3722	-.2579	-.2369

ALPHA ( 2 ) = .042 BETA ( 2 ) = .192 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1745	-.1976	-.1994	-.2534	-.2603	-.2758
.757	-.1878	-.2023	-.2105	-.2691	.0000	-.2660
.805	-.1868	-.2100	-.2210	-.2751	-.2741	-.2601
.857	-.2032	-.2157	-.2417	-.3167	-.2774	-.2612
.909	-.2764	-.2202	-.2970	-.3900	-.2996	-.2400

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2002	-.1988	-.1914	-.2305	-.2440	-.2349
.757	-.2073	-.2011	-.1923	-.2287	.0000	-.2371
.805	-.2014	-.2061	-.1914	-.2202	-.2561	-.2405
.857	-.2107	-.2039	-.1828	-.2513	-.2711	-.2449
.909	-.2949	-.2039	-.1533	-.3427	-.3172	-.2377

ALPHA ( 3 ) = .023 BETA ( 1 ) = -3.861 MACH = .90070 Q = 608.44 P = 1057.3 RN/L = 3.5793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1473	-.1615	-.1724	-.2408	-.2358	-.2332
.757	-.1572	-.1679	-.1838	-.2406	.0000	-.2346
.805	-.1551	-.1796	-.1976	-.2486	-.2569	-.2384
.857	-.1822	-.1862	-.2156	-.2921	-.2660	-.2339
.909	-.2494	-.1921	-.2463	-.3794	-.2871	-.2270

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK79)

ALPHA ( 3 ) = 4.017 BETA ( 2 ) = .197 MACH = .90070 Q = 600.44 P = 1057.3 RN/L = 3.5793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1618 -.1749 -.1756 -.2338 -.2474 -.2443  
 .757 -.1694 -.1711 -.1894 -.2317 .0000 -.2317  
 .805 -.1709 -.1816 -.1937 -.2464 -.2588 -.2374  
 .887 -.1932 -.1998 -.2030 -.2933 -.2731 -.2450  
 .956 -.2691 -.1891 -.2141 -.3969 -.3018 -.2376

ALPHA ( 3 ) = 4.017 BETA ( 3 ) = 4.251 MACH = .90070 Q = 600.44 P = 1057.3 RN/L = 3.5793

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1874 -.1859 -.1921 -.2228 -.2257 -.2178  
 .757 -.1878 -.1907 -.2047 -.2307 .0000 -.2126  
 .805 -.1907 -.1938 -.2233 -.2409 -.2295 -.2100  
 .887 -.2140 -.2230 -.2295 -.2554 -.2438 -.2161  
 .969 -.2700 -.2352 -.2224 -.2954 -.2602 -.2004

ALPHA ( 4 ) = 7.937 BETA ( 1 ) = -3.857 MACH = .90017 Q = 600.17 P = 1058.1 RN/L = 3.5825

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1454 -.1523 -.1652 -.2191 -.2390 -.2400  
 .757 -.1509 -.1585 -.1751 -.2260 .0000 -.2405  
 .805 -.1647 -.1728 -.1818 -.2436 -.2592 -.2407  
 .887 -.1894 -.1842 -.1913 -.2761 -.2747 -.2336  
 .968 -.2398 -.1847 -.2008 -.3723 -.2849 -.2234

ALPHA ( 4 ) = 7.934 BETA ( 2 ) = .192 MACH = .90017 Q = 600.17 P = 1058.1 RN/L = 3.5825

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1731 -.1724 -.1807 -.2304 -.2559 -.2414  
 .757 -.1693 -.1760 -.1950 -.2359 .0000 -.2433  
 .805 -.1779 -.1807 -.1843 -.2312 -.2618 -.2395  
 .887 -.2036 -.1938 -.1874 -.2649 -.2811 -.2471  
 .969 -.2626 -.1998 -.1845 -.3620 -.3078 -.2364

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ALPHA ( 4 ) = 7.926 BETA ( 3 ) = 4.250 MACH = .90017 Q = 600.17 P = 1058.1 RN/L = 3.5825  
 AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK79)

## SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.1864 -.2054 -.1912 -.2105 -.2124 -.2214  
 .757 -.2014 -.2144 -.2043 -.1965 -.2000 -.2262  
 .805 -.2040 -.2195 -.2110 -.1988 -.2274 -.2229  
 .887 -.2335 -.2251 -.2131 -.2203 -.2469 -.2236  
 .959 -.2897 -.2377 -.2174 -.2593 -.2738 -.2265

ALPHA ( 5 ) = 11.969 BETA ( 1 ) = -3.847 MACH = .89890 Q = 599.14 P = 1059.2 RN/L = 3.5769

## SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.1744 -.1791 -.1864 -.2376 -.2525 -.2423  
 .757 -.1791 -.1915 -.1909 -.2368 -.2000 -.2483  
 .805 -.1977 -.1970 -.2047 -.2516 -.2666 -.2418  
 .887 -.2134 -.2098 -.2195 -.2878 -.2797 -.2445  
 .959 -.2589 -.2129 -.2342 -.3794 -.2636 -.2257

ALPHA ( 5 ) = 11.976 BETA ( 2 ) = .196 MACH = .89890 Q = 599.14 P = 1059.2 RN/L = 3.5769

## SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .709 -.1826 -.1979 -.1922 -.2332 -.2370 -.2399  
 .757 -.2025 -.2063 -.2020 -.2292 -.2000 -.2408  
 .805 -.2079 -.2150 -.2034 -.2389 -.2618 -.2396  
 .887 -.2335 -.2055 -.1903 -.2673 -.2737 -.2402  
 .959 -.2827 -.2059 -.1858 -.3311 -.2987 -.2371

ALPHA ( 5 ) = 11.956 BETA ( 3 ) = 4.265 MACH = .89890 Q = 599.14 P = 1059.2 RN/L = 3.5769

## SECTION ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV  
 .708 -.2397 -.2253 -.2204 -.2333 -.2333 -.2164  
 .757 -.2468 -.2423 -.2216 -.2211 -.2000 -.2176  
 .805 -.2490 -.2456 -.2331 -.2257 -.2331 -.2159  
 .887 -.2732 -.2172 -.2178 -.2592 -.2397 -.2177  
 .959 -.3288 -.2615 -.2128 -.2371 -.2652 -.2205



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XE8X80) ( 13 AUG 75 )

## REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.078 BETA ( 1 ) = -7.858 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298  
 ALPHA ( 2 ) = -4.052 BETA ( 2 ) = -3.836 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.1605 -.1619 -.1555 -.1602 -.1844 -.1972  
 .757 -.1617 -.1610 -.1495 -.1519 .0000 -.1976  
 .805 -.1629 -.1565 -.1424 -.1401 -.1713 -.1960  
 .887 -.1568 -.1466 -.1270 -.1192 -.1588 -.1860  
 .968 -.1747 -.1302 -.0946 -.0794 -.1232 -.1255

ALPHA ( 1 ) = -4.052 BETA ( 2 ) = -3.836 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298  
 ALPHA ( 2 ) = -4.052 BETA ( 2 ) = -3.836 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.1657 -.1600 -.1553 -.1553 -.1796 -.1897  
 .757 -.1591 -.1619 -.1487 -.1463 .0000 -.1939  
 .805 -.1622 -.1551 -.1378 -.1373 -.1656 -.1906  
 .887 -.1589 -.1465 -.1225 -.1128 -.1564 -.1867  
 .968 -.1713 -.1302 -.0795 -.0614 -.1199 -.1332

ALPHA ( 1 ) = -4.061 BETA ( 3 ) = .183 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298  
 ALPHA ( 2 ) = -4.061 BETA ( 3 ) = .183 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

## SECTION 1 (RIGHT HAND INSIDE) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

## X/CV

.708 -.1733 -.1679 -.1613 -.1721 -.2063 -.2179  
 .757 -.1735 -.1639 -.1584 -.1536 .0000 -.2158  
 .805 -.1707 -.1660 -.1552 -.1575 -.1948 -.2193  
 .887 -.1705 -.1517 -.1245 -.1408 -.1679 -.2101  
 .968 -.1846 -.1225 -.0818 -.0912 -.1726 -.1875

## PARAMETRIC DATA

RUDDER = -10.000 SPDRK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = .600

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK80)

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

ALPHA ( 1 ) = -3.963 BETA ( 4 ) = 4.258 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.1697	-.1690	-.1636	-.1757	-.1938	-.2058
.757	-.1748	-.1650	-.1561	-.1679	-.0800	-.2051
.805	-.1760	-.1641	-.1514	-.1584	-.1934	-.2011
.897	-.1774	-.1614	-.1325	-.1507	-.1839	-.1971
.958	-.2042	-.1284	-.0945	-.1304	-.1627	-.1862

ALPHA ( 1 ) = -3.995 BETA ( 5 ) = 8.327 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.1831	-.1812	-.1804	-.2296	-.2780	-.2877
.757	-.1929	-.1831	-.1776	-.2180	-.0900	-.2787
.805	-.1939	-.1845	-.1757	-.2135	-.2673	-.2872
.897	-.2075	-.1883	-.1644	-.2078	-.2770	-.2822
.958	-.2524	-.1714	-.1249	-.1859	-.2874	-.3016

ALPHA ( 2 ) = -3.953 BETA ( 1 ) = -7.896 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.1651	-.1594	-.1508	-.1601	-.1923	-.1875
.757	-.1610	-.1551	-.1473	-.1542	-.0800	-.1896
.805	-.1617	-.1518	-.1433	-.1478	-.1717	-.1851
.897	-.1630	-.1483	-.1277	-.1302	-.1568	-.1824
.958	-.1650	-.1491	-.1094	-.1023	-.1122	-.1323

ALPHA ( 2 ) = -3.900 BETA ( 2 ) = -5.054 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709	-.1560	-.1509	-.1504	-.1525	-.1729	-.1845
.757	-.1510	-.1458	-.1445	-.1473	-.0800	-.1856
.805	-.1510	-.1453	-.1439	-.1365	-.1663	-.1858
.897	-.1524	-.1444	-.1229	-.1102	-.1502	-.1739
.958	-.1534	-.1430	-.1040	-.0822	-.1083	-.1287

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK60)

ALPHA ( 2 ) = .029 BETA ( 3 ) = .176 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1689 -.1576 -.1578 -.1620 -.1941 -.2005  
 .757 -.1717 -.1511 -.1485 -.1523 .0000 -.2041  
 .805 -.1626 -.1590 -.1403 -.1464 -.1800 -.2024  
 .827 -.1651 -.1442 -.1207 -.1287 -.1684 -.1998  
 .968 -.1832 -.1233 -.0838 -.0796 -.1341 -.1724

ALPHA ( 2 ) = .052 BETA ( 4 ) = 4.239 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1619 -.1635 -.1545 -.1678 -.1855 -.1929  
 .757 -.1575 -.1523 -.1460 -.1569 .0000 -.1936  
 .805 -.1650 -.1558 -.1363 -.1521 -.1782 -.1891  
 .827 -.1626 -.1472 -.1287 -.1417 -.1708 -.1845  
 .968 -.1390 -.1255 -.0842 -.1150 -.1467 -.1693

ALPHA ( 2 ) = .005 BETA ( 5 ) = 8.284 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1768 -.1787 -.1740 -.2126 -.2526 -.2680  
 .757 -.1886 -.1759 -.1752 -.2036 .0000 -.2611  
 .805 -.1895 -.1836 -.1709 -.2003 -.2529 -.2633  
 .827 -.2050 -.1842 -.1614 -.1903 -.2526 -.2687  
 .968 -.2634 -.1776 -.1231 -.1567 -.2495 -.2758

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -7.902 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1515 -.1506 -.1501 -.1581 -.1849 -.1903  
 .757 -.1518 -.1501 -.1451 -.1499 .0000 -.1927  
 .805 -.1562 -.1464 -.1355 -.1359 -.1756 -.1901  
 .827 -.1485 -.1464 -.1286 -.1189 -.1567 -.1908  
 .968 -.1632 -.1269 -.0917 -.0678 -.1139 -.1481

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.907 BETA ( 2 ) = -3.656 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207  
 (XEBK80)

## SECTION 1 UPRIGHT HIND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1571 -.1512 -.1446 -.1505 -.1768 -.1805  
 .757 -.1552 -.1479 -.1401 -.1469 .0000 -.1779  
 .805 -.1533 -.1446 -.1372 -.1361 -.1600 -.1770  
 .857 -.1524 -.1489 -.1423 -.1438 -.1472 -.1784  
 .909 -.1510 -.1475 -.1421 -.1403 -.1497 -.1736

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

## SECTION 1 UPRIGHT HIND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1551 -.1529 -.1505 -.1523 -.1772 -.1903  
 .757 -.1535 -.1479 -.1460 .0000 -.1891  
 .805 -.1505 -.1427 -.1342 -.1328 -.1664 -.1862  
 .857 -.1481 -.1440 -.1433 -.1483 -.1557 -.1853  
 .909 -.1454 -.1436 -.1412 -.1414 -.1536 -.1553

ALPHA ( 3 ) = 3.988 BETA ( 4 ) = .1226 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

## SECTION 1 UPRIGHT HIND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1493 -.1465 -.1435 -.1465 -.1788 -.1856  
 .757 -.1478 -.1459 -.1437 -.1458 .0000 -.1857  
 .805 -.1461 -.1435 -.1415 -.1432 -.1741 -.1823  
 .857 -.1443 -.1421 -.1404 -.1424 -.1660 -.1817  
 .909 -.1425 -.1407 -.1387 -.1408 -.1740 -.1569

ALPHA ( 3 ) = 4.125 BETA ( 5 ) = 8.276 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

## SECTION 1 UPRIGHT HIND INSIDE DEPENDENT VARIABLE CP

Z-BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1722 -.1723 -.1730 -.1877 -.2031 -.2074  
 .757 -.1696 -.1715 -.1687 -.1773 .0000 -.2069  
 .805 -.1725 -.1704 -.1700 -.1735 -.1998 -.2036  
 .857 -.1693 -.1812 -.1756 -.1735 -.1965 -.1989  
 .909 -.1646 -.1759 -.1730 -.1739 -.1810 -.2043

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## TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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ALPHA ( 4 ) = 7.903 BETA ( 1 ) = -7.895 MACH = .59626 0 = 593.85 P = 2386.1 RN/L = 4.8197

(XEBK80)

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1503	-.1534	-.1459	-.1722	-.2045	-.2196
.757	-.1527	-.1557	-.1482	-.1577	.0000	-.2194
.805	-.1538	-.1534	-.1444	-.1553	-.1916	-.2142
.887	-.1548	-.1524	-.1307	-.1293	-.1781	-.2197
.968	-.1951	-.1460	-.1034	-.0763	-.1247	-.1690

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = -3.851 MACH = .59626 0 = 593.85 P = 2386.1 RN/L = 4.8197

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1501	-.1523	-.1457	-.1450	-.1670	-.1817
.757	-.1513	-.1527	-.1441	-.1410	.0000	-.1832
.805	-.1492	-.1461	-.1322	-.1353	-.1578	-.1782
.887	-.1478	-.1438	-.1230	-.1076	-.1414	-.1722
.968	-.1737	-.1319	-.0874	-.0535	-.0948	-.1356

ALPHA ( 4 ) = 8.059 BETA ( 3 ) = .184 MACH = .59626 0 = 593.85 P = 2386.1 RN/L = 4.8197

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1527	-.1527	-.1467	-.1500	-.1727	-.1820
.757	-.1591	-.1539	-.1379	-.1467	.0000	-.1813
.805	-.1612	-.1525	-.1315	-.1339	-.1625	-.1789
.887	-.1585	-.1521	-.1144	-.1140	-.1509	-.1794
.968	-.1902	-.1253	-.0751	-.0661	-.1024	-.1507

ALPHA ( 4 ) = 8.016 BETA ( 4 ) = 4.233 MACH = .59626 0 = 593.85 P = 2386.1 RN/L = 4.8197

SECTION ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1558	-.1550	-.1569	-.1614	-.1713	-.1737
.757	-.1645	-.1627	-.1489	-.1605	.0000	-.1657
.805	-.1690	-.1664	-.1534	-.1553	-.1673	-.1690
.887	-.1739	-.1748	-.1446	-.1463	-.1561	-.1642
.968	-.2254	-.1767	-.1169	-.1361	-.1368	-.1440

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TABULATED PRESSURE DATA - 08148 ( AMES 11-073-1 )

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(XEBK00)

AMES 11-073(08148) -140A/B/C ORB SPEED BRAKE

ALPHA ( 4 ) = 8.043 BETA ( 5 ) = 8.283 MACH = .59626 Q = 533.85 P = 2385.1 RV/L = 4.8197

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1841	-.1820	-.1824	-.1954	-.2067	-.2056
.757	-.1893	-.1820	-.1810	-.1942	.0000	-.1990
.805	-.1858	-.1940	-.1864	-.1838	-.1985	-.2037
.857	-.2034	-.2033	-.1822	-.1713	-.1980	-.2035
.908	-.2620	-.2168	-.1572	-.1567	-.1933	-.2255

ALPHA ( 5 ) = 11.974 BETA ( 1 ) = -7.860 MACH = .59650 Q = 594.19 P = 2385.7 RV/L = 4.8199

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1411	-.1404	-.1414	-.1606	-.1958	-.2074
.757	-.1451	-.1333	-.1409	-.1556	.0000	-.2048
.805	-.1291	-.1392	-.1362	-.1478	-.1840	-.2091
.857	-.1284	-.1285	-.1288	-.1241	-.1696	-.2084
.908	-.1321	-.1474	-.0959	-.0736	-.1151	-.1657

ALPHA ( 5 ) = 11.993 BETA ( 2 ) = -3.842 MACH = .59650 Q = 594.19 P = 2385.7 RV/L = 4.8199

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1545	-.1481	-.1502	-.1495	-.1661	-.1725
.757	-.1568	-.1461	-.1435	-.1423	.0000	-.1727
.805	-.1507	-.1490	-.1335	-.1340	-.1499	-.1727
.857	-.1408	-.1402	-.1184	-.1085	-.1397	-.1699
.908	-.1721	-.1715	-.0849	-.0524	-.0875	-.1259

ALPHA ( 5 ) = 12.025 BETA ( 3 ) = .179 MACH = .59650 Q = 594.19 P = 2385.7 RV/L = 4.8199

SECTION 1 ( UPRIGHT HAND INSIDE ) DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1560	-.1509	-.1484	-.1457	-.1614	-.1666
.757	-.1629	-.1491	-.1408	-.1370	.0000	-.1635
.805	-.1568	-.1471	-.1389	-.1275	-.1502	-.1666
.857	-.1482	-.1390	-.1116	-.1159	-.1478	-.1648
.908	-.1751	-.1150	-.0681	-.0626	-.0891	-.1327

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 12.027 BETA ( 4 ) = 4.242 MACH = .59650 0 = 594.19 P = 2385.7 RN/L = 4.8159  
(XEBK80)

SECTION: ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1673 -.1654 -.1630 -.1703 -.1682 -.1647  
.757 -.1802 -.1748 -.1665 -.1611 .0000 -.1684  
.805 -.1882 -.1585 -.1654 -.1561 -.1680 -.1542  
.887 -.2019 -.1991 -.1528 -.1476 -.1573 -.1643  
.958 -.2691 -.1902 -.1325 -.1305 -.1334 -.1403

ALPHA ( 5 ) = 12.051 BETA ( 5 ) = 8.297 MACH = .59650 0 = 594.19 P = 2385.7 RN/L = 4.8159

SECTION: ( UPRIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.1754 -.1922 -.1938 -.2076 -.2097 -.2192  
.757 -.1917 -.1932 -.1869 -.2031 .0000 -.2240  
.805 -.1926 -.2044 -.1850 -.1952 -.2102 -.2235  
.887 -.2224 -.2337 -.1836 -.1898 -.2178 -.2215  
.958 -.2856 -.2187 -.1793 -.1739 -.2159 -.2618

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C ORB SPEED BRAKE

(XEBK81) ( 13 AUG 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = .000  
BDFLAP = -11.700 L-ELVN = -10.000  
R-ELVN = 10.000 MACH = 1.400

ALPHA ( 1 ) = -3.955 BETA ( 1 ) = .178 MACH = 1.3929 O = 599.69 P = 441.59 RN/L = 2.9281

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2324 -.2442 -.2479 -.2979 -.2053 -.3037  
.757 -.2613 -.2625 -.2676 -.3041 .0000 -.3056  
.805 -.3035 -.2608 -.2892 -.3159 -.3068  
.887 -.3639 -.3275 -.3253 -.3457 -.3284 -.3108  
.963 -.4265 -.4111 -.4191 -.4193 -.3878 -.3574

ALPHA ( 2 ) = .028 BETA ( 1 ) = .177 MACH = 1.3894 O = 599.62 P = 443.71 RN/L = 2.9315

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2448 -.2581 -.2606 -.3242 -.3358 -.3355  
.757 -.2935 -.2747 -.2816 -.3290 .0000 -.3370  
.805 -.3157 -.2947 -.3054 -.3408 -.3459 -.3399  
.887 -.3725 -.3378 -.3421 -.3700 -.3587 -.3431  
.968 -.4371 -.4213 -.4394 -.4420 -.4148 -.3899

ALPHA ( 3 ) = 3.945 BETA ( 1 ) = -3.872 MACH = 1.3917 O = 599.67 P = 442.30 RN/L = 2.9226

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2558 -.2677 -.2713 -.3465 -.3665 -.3658  
.757 -.3007 -.2826 -.2913 -.3494 .0000 -.3682  
.805 -.3204 -.2997 -.3120 -.3588 -.3730 -.3708  
.887 -.3742 -.3422 -.3470 -.3850 -.3846 -.3748  
.968 -.4460 -.4143 -.4357 -.4479 -.4308 -.4071



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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK81)  
 ALPHA ( 3 ) = 3.983 BETA ( 2 ) = .185 MACH = 1.3917 Q = 599.67 P = 442.30 RN/L = 2.9226

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2561 -.2711 -.2734 -.3455 -.3612 -.3619  
 .757 -.3049 -.2863 -.2944 -.3487 -.0000 -.3634  
 .805 -.3249 -.3059 -.3173 -.3600 -.3696 -.3667  
 .887 -.3770 -.3482 -.3561 -.3887 -.3822 -.3591  
 .968 -.4456 -.4270 -.4526 -.4589 -.4345 -.4126

ALPHA ( 3 ) = 3.932 BETA ( 3 ) = 4.246 MACH = 1.3917 Q = 599.67 P = 442.30 RN/L = 2.9226

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2475 -.2620 -.2710 -.3459 -.3614 -.3607  
 .757 -.2813 -.2775 -.2900 -.3503 -.0000 -.3633  
 .805 -.2970 -.2970 -.3168 -.3614 -.3715 -.3674  
 .887 -.3390 -.3460 -.3568 -.3925 -.3845 -.3735  
 .968 -.4197 -.4408 -.4600 -.4658 -.4395 -.4208

ALPHA ( 4 ) = 7.903 BETA ( 1 ) = .179 MACH = 1.3906 Q = 599.65 P = 443.00 RN/L = 2.9169

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2607 -.2730 -.2770 -.3659 -.3881 -.3881  
 .757 -.3010 -.2882 -.2982 -.3659 -.0000 -.3910  
 .805 -.3184 -.3063 -.3219 -.3760 -.3953 -.3948  
 .887 -.3614 -.3464 -.3605 -.4057 -.4074 -.4001  
 .968 -.4307 -.4421 -.4525 -.4723 -.4554 -.4417

ALPHA ( 5 ) = 11.906 BETA ( 1 ) = -3.868 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9079

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2721 -.2866 -.2917 -.3835 -.4127 -.4144  
 .757 -.3263 -.3043 -.3125 -.3852 -.0000 -.4173  
 .805 -.3523 -.3263 -.3352 -.3934 -.4185 -.4219  
 .887 -.4144 -.3700 -.3719 -.4193 -.4280 -.4268  
 .968 -.4859 -.4454 -.4553 -.4775 -.4700 -.4560

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.888 BETA ( 2 ) = .169 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9079  
 (XEBK81)

## SECTION / 1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2630 -.2763 -.2837 -.3809 -.4080 -.4085  
 .757 -.3005 -.2913 -.3062 -.3814 .0000 -.4119  
 .805 -.3145 -.3075 -.3280 -.3896 -.4148 -.4160  
 .887 -.3525 -.3487 -.3662 -.4189 -.4259 -.4250  
 .968 -.4301 -.4267 -.4576 -.4830 -.4718 -.4638

ALPHA ( 5 ) = 11.887 BETA ( 3 ) = 4.249 MACH = 1.3903 Q = 599.44 P = 443.00 RN/L = 2.9079

## SECTION / 1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2614 -.2788 -.2836 -.3808 -.4075 -.4077  
 .757 -.2820 -.2914 -.3085 -.3830 .0000 -.4113  
 .805 -.2890 -.3079 -.3351 -.3944 -.4153 -.4155  
 .887 -.3189 -.3546 -.3779 -.4261 -.4280 -.4244  
 .968 -.4149 -.4537 -.4861 -.4963 -.4776 -.4692

ALPHA ( 5 ) = 15.870 BETA ( 1 ) = .160 MACH = 1.3887 Q = 599.91 P = 444.41 RN/L = 2.9066

## SECTION / 1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2720 -.2858 -.2965 -.3956 -.4246 -.4250  
 .757 -.3133 -.3024 -.3166 -.3958 .0000 -.4294  
 .805 -.3309 -.3205 -.3422 -.4069 -.4330 -.4335  
 .887 -.3739 -.3596 -.3944 -.4357 -.4434 -.4436  
 .968 -.4556 -.4518 -.4806 -.5007 -.4886 -.4851

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(XEBK82) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0590 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = .000  
BOFLAP = -11.700 L-ELVN = -10.000  
R-ELVN = 10.000 MACH = 1.250

ALPHA ( 1 ) = -.004 BETA ( 1 ) = .172 MACH = 1.2466 Q = 600.03 P = 551.58 RV/L = 3.0277

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2559 -.2747 -.2832 -.3866 -.4159 -.4154  
.757 -.3076 -.2928 -.3083 -.3895 .0000 -.4171  
.805 -.3243 -.3163 -.3373 -.4026 -.4244 -.4215  
.887 -.3862 -.3662 -.3813 -.4389 -.4408 -.4252  
.968 -.4710 -.4569 -.4863 -.5191 -.5017 -.4765

ALPHA ( 2 ) = .004 BETA ( 1 ) = .171 MACH = 1.2457 Q = 599.87 P = 552.28 RV/L = 3.0295

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2614 -.2806 -.2873 -.4079 -.4435 -.4440  
.757 -.3079 -.2987 -.3141 -.4072 .0000 -.4471  
.805 -.3261 -.3190 -.3448 -.4205 -.4529 -.4505  
.887 -.3774 -.3708 -.3896 -.4553 -.4677 -.4572  
.968 -.4677 -.4594 -.4853 -.5337 -.5267 -.5078

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = -3.880 MACH = 1.2454 Q = 599.82 P = 552.51 RV/L = 3.0275

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2741 -.2901 -.3005 -.4221 -.4644 -.4651  
.757 -.3140 -.3077 -.3258 -.4204 .0000 -.4695  
.805 -.3278 -.3297 -.3537 -.4284 -.4690 -.4728  
.887 -.3836 -.3855 -.3989 -.4574 -.4791 -.4791  
.968 -.4936 -.4789 -.4915 -.5115 -.5161 -.5089

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ALPHA ( 3 ) = 3.950 BETA ( 2 ) = .192 MACH = 1.2454 0 = 599.82 P = 552.51 RN/L = 3.0275

(XEBK82)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2747	-.2921	-.3022	-.4257	-.4680	-.4702
.757	-.3132	-.3069	-.3267	-.4242	.0000	-.4733
.805	-.3200	-.3282	-.3560	-.4378	-.4755	-.4775
.887	-.3595	-.3793	-.3993	-.4700	-.4900	-.4859
.968	-.4559	-.4712	-.4893	-.5409	-.5460	-.5344

ALPHA ( 3 ) = 3.915 BETA ( 3 ) = 4.246 MACH = 1.2454 0 = 599.82 P = 552.51 RN/L = 3.0275

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2611	-.2855	-.2944	-.4289	-.4724	-.4741
.757	-.2965	-.3017	-.3217	-.4296	.0000	-.4777
.805	-.2974	-.3228	-.3568	-.4432	-.4821	-.4826
.887	-.3429	-.3707	-.4059	-.4828	-.4983	-.4898
.968	-.4454	-.4651	-.5186	-.5739	-.5580	-.5454

ALPHA ( 4 ) = 7.875 BETA ( 1 ) = .170 MACH = 1.2457 0 = 599.87 P = 552.29 RN/L = 3.0295

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2586	-.2852	-.3000	-.4339	-.4870	-.4909
.757	-.2965	-.3005	-.3254	-.4322	.0000	-.4957
.805	-.3024	-.3191	-.3541	-.4409	-.4943	-.5008
.887	-.3297	-.3726	-.3998	-.4708	-.5054	-.5074
.968	-.4434	-.4590	-.4829	-.5262	-.5503	-.5507

ALPHA ( 5 ) = 11.993 BETA ( 1 ) = -3.862 MACH = 1.2456 0 = 600.06 P = 552.51 RN/L = 3.0278

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.3116	-.3276	-.3360	-.4632	-.5099	-.5133
.757	-.3553	-.3452	-.3607	-.4594	.0000	-.5172
.805	-.3815	-.3699	-.3897	-.4671	-.5133	-.5220
.887	-.4052	-.4213	-.4335	-.4925	-.5208	-.5273
.968	-.5293	-.5114	-.5143	-.5346	-.5455	-.5421

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 5 ) = 11.948 BETA ( 2 ) = .178 MACH = 1.2456 Q = 600.06 P = 552.51 RN/L = 3.0278  
(XEBK82)

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2786 -.2972 -.3093 -.4497 -.5058 -.5099  
.757 -.3025 -.3108 -.3354 -.4461 .0000 -.5150  
.805 -.3108 -.3311 -.3669 -.4555 -.5109 -.5208  
.887 -.3396 -.3802 -.4107 -.4845 -.5128 -.5283  
.968 -.4459 -.4802 -.4971 -.5356 -.5581 -.5692

ALPHA ( 5 ) = 11.569 BETA ( 3 ) = .251 MACH = 1.2456 Q = 600.06 P = 552.51 RN/L = 3.0278

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2763 -.2986 -.3121 -.4600 -.5158 -.5184  
.757 -.2981 -.3134 -.3402 -.4573 .0000 -.5228  
.805 -.3047 -.3337 -.3742 -.4709 -.5250 -.5291  
.887 -.3531 -.3833 -.4239 -.5030 -.5390 -.5409  
.968 -.4600 -.4742 -.5228 -.5868 -.5953 -.5921

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK83) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.6000 IN. YMRP = .0000 IN. YO  
 SREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.943 BETA ( 1 ) = .171 MACH = 1.0992 Q = 599.30 P = 708.59 RN/L = 3.1942  
 SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/EV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2823 -.3072 -.3205 -.4785 -.5397 -.5433  
 .757 -.3227 -.3271 -.3505 -.4754 -.0000 -.5470  
 .805 -.3362 -.3517 -.3846 -.4870 -.5443 -.5508  
 .887 -.4014 -.4070 -.4374 -.5218 -.5567 -.5544  
 .968 -.5103 -.5142 -.5334 -.5842 -.5932 -.6013

ALPHA ( 2 ) = .065 BETA ( 1 ) = .171 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1985

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/EV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2553 -.2855 -.2983 -.4730 -.5442 -.5512  
 .757 -.2658 -.3042 -.3307 -.4674 -.0000 -.5561  
 .805 -.2957 -.3271 -.3698 -.4778 -.5483 -.5592  
 .887 -.3532 -.3505 -.4223 -.5133 -.5573 -.5702  
 .968 -.4809 -.5039 -.5205 -.5737 -.5838 -.5913

ALPHA ( 3 ) = 3.859 BETA ( 1 ) = -3.876 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION ( 1 ) RIGHT HAND INSIDE

DEPENDENT VARIABLE CP

Z/EV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2825 -.3050 -.3199 -.4946 -.5653 -.5693  
 .757 -.3224 -.3265 -.3555 -.4932 -.0000 -.5745  
 .805 -.3297 -.3495 -.3908 -.5017 -.5655 -.5767  
 .887 -.3934 -.4154 -.4424 -.5319 -.5715 -.5839  
 .968 -.5350 -.5200 -.5515 -.5876 -.5968 -.5931

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = .008  
 BDFLAP = -11.700 L-ELVN = -10.000  
 R-ELVN = 10.000 MACH = 1.100

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK83)  
 ALPHA ( 3 ) = 3.908 BETA ( 2 ) = .189 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2652 -.2909 -.3044 -.4869 -.5649 -.5726  
 .757 -.2866 -.3067 -.3362 -.4803 .0000 -.5775  
 .805 -.2946 -.3283 -.3706 -.4895 -.5673 -.5818  
 .887 -.3435 -.3789 -.4251 -.5249 -.5750 -.5821  
 .958 -.4749 -.4800 -.5234 -.5811 -.5942 -.6022

ALPHA ( 3 ) = 3.913 BETA ( 3 ) = 4.243 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2598 -.2946 -.3079 -.5018 -.5915 -.6099  
 .757 -.2717 -.3087 -.3388 -.4877 .0000 -.6148  
 .805 -.2720 -.3266 -.3747 -.4979 -.5319 -.6170  
 .887 -.3356 -.3770 -.4241 -.5237 -.5002 -.6252  
 .958 -.4539 -.4634 -.5033 -.5514 -.6294 -.6647

ALPHA ( 4 ) = 8.023 BETA ( 1 ) = .173 MACH = 1.0972 Q = 598.87 P = 710.71 RN/L = 3.1996

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2693 -.2992 -.3131 -.4959 -.5803 -.5883  
 .757 -.2953 -.3150 -.3451 -.4896 .0000 -.5943  
 .805 -.3031 -.3373 -.3775 -.5005 -.5817 -.5977  
 .887 -.3611 -.3871 -.4317 -.5347 -.5863 -.5984  
 .958 -.4881 -.4712 -.5272 -.5849 -.6038 -.6066

ALPHA ( 5 ) = 11.986 BETA ( 1 ) = -3.856 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2922 -.3208 -.3301 -.4930 -.5575 -.5639  
 .757 -.3155 -.3349 -.3597 -.4896 .0000 -.5670  
 .805 -.3279 -.3524 -.3934 -.4985 -.5624 -.5704  
 .887 -.3761 -.4037 -.4459 -.5333 -.5716 -.5785  
 .958 -.5043 -.4746 -.5736 -.5855 -.6061 -.5956

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

(XEBK83)

ALPHA ( 5 ) = 11.954 BETA ( 2 ) = .179 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2927	-.3205	-.3298	-.4993	-.5665	-.5740
.757	-.3162	-.3359	-.3599	-.4923	.0000	-.5801
.805	-.3274	-.3563	-.3936	-.5020	-.5706	-.5859
.887	-.3385	-.4048	-.4464	-.5340	-.5789	-.5855
.958	-.5062	-.4853	-.5388	-.5835	-.5873	-.5843

ALPHA ( 5 ) = 11.953 BETA ( 3 ) = 4.251 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2707	-.3030	-.3175	-.5001	-.5978	-.6194
.757	-.2621	-.3169	-.3502	-.4889	.0000	-.6274
.805	-.2552	-.3355	-.3842	-.4960	-.5949	-.6325
.887	-.3323	-.3501	-.4273	-.5151	-.5927	-.6335
.958	-.4553	-.4535	-.4998	-.5183	-.5731	-.6243



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AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE (XEBK84) ( 13 AUG 75 )

REFERENCE DATA

REF = 2500.000 SQ.FT. XMRP = 1076.6800 IN. XO  
REF = 474.5000 IN. YMRP = .0000 IN. YO  
REF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -3.955 BETA ( 1 ) = .165 MACH = .89930 Q = 599.63 P = 1059.2 RV/L = 3.5885

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2392 -.2390 -.2362 -.2961 -.2145 -.3120  
.757 -.2342 -.2416 -.2417 -.2961 .0000 -.3147  
.805 -.2245 -.2359 -.2441 -.3137 -.3128 -.3157  
.857 -.2355 -.2268 -.2672 -.3407 -.3219 -.3093  
.909 -.2631 -.1900 -.3060 -.4094 -.3161 -.2814

ALPHA ( 2 ) = .057 BETA ( 1 ) = .165 MACH = .89770 Q = 598.28 P = 1050.7 RV/L = 3.5863

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.2202 -.2221 -.2135 -.2646 -.2873 -.2848  
.757 -.2168 -.2257 -.2152 -.2639 .0000 -.2945  
.805 -.2394 -.2239 -.2172 -.2745 -.2928 -.2935  
.857 -.2023 -.1995 -.2181 -.3036 -.2754 -.2759  
.909 -.2609 -.1707 -.2044 -.4075 -.3060 -.2562

ALPHA ( 3 ) = 3.888 BETA ( 1 ) = -3.885 MACH = .89803 Q = 598.38 P = 1050.0 RV/L = 3.5814

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.709 -.1875 -.1635 -.2010 -.2198 -.2248 -.2243  
.757 -.1907 -.1629 -.2018 -.2253 .0000 -.2311  
.805 -.1869 -.1941 -.2008 -.2242 -.2359 -.2287  
.857 -.1857 -.2090 -.2039 -.2335 -.2416 -.2334  
.909 -.2218 -.2136 -.2073 -.2462 -.2613 -.2165

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = .000  
BDFLAP = -11.700 L-ELVN = -10.000  
R-ELVN = 10.000 MACH = .900

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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(XEBK84)

AMES 11-073(0A148) -140A/B/C ORB SPEED BRAKE

ALPHA (3) = 4.092 BETA (2) = .164 MACH = .89803 Q = 598.38 P = 1060.0 RV/L = 3.5814

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2102	-.2042	-.2043	-.2422	-.2655	-.2576
.757	-.2025	-.1984	-.2071	-.2405	.0000	-.2571
.805	-.1934	-.1962	-.1939	-.2439	-.2691	-.2557
.857	-.1909	-.1916	-.1944	-.2624	-.2754	-.2550
.908	-.1846	-.1820	-.1802	-.2689	-.2896	-.2356

ALPHA (3) = 3.935 BETA (3) = 4.248 MACH = .89803 Q = 598.38 P = 1060.0 RV/L = 3.5814

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2134	-.1978	-.2015	-.2607	-.2851	-.2745
.757	-.2153	-.2075	-.1953	-.2424	.0000	-.2824
.805	-.2142	-.2024	-.2049	-.2458	-.2875	-.2884
.857	-.2107	-.1924	-.1895	-.2711	-.2954	-.2719
.908	-.2255	-.1953	-.1495	-.3205	-.3128	-.2283

ALPHA (4) = 8.005 BETA (1) = .163 MACH = .89820 Q = 598.16 P = 1059.3 RV/L = 3.5792

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.1980	-.2057	-.1936	-.2314	-.2483	-.2579
.757	-.2004	-.1950	-.1975	-.2251	.0000	-.2495
.805	-.1939	-.1987	-.1931	-.2249	-.2699	-.2567
.857	-.1927	-.1930	-.1763	-.2403	-.2808	-.2573
.908	-.1843	-.1692	-.1281	-.3027	-.3051	-.2402

ALPHA (5) = 1.519 BETA (1) = .152 MACH = .89670 Q = 597.36 P = 1061.4 RV/L = 3.5769

SECTION (1) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708	-.2025	-.2261	-.2209	-.2448	-.2629	-.2595
.757	-.2020	-.2064	-.2185	-.2426	.0000	-.2595
.805	-.1973	-.2117	-.2181	-.2409	-.2619	-.2658
.857	-.2091	-.2135	-.2017	-.2515	-.2783	-.2564
.908	-.1940	-.2042	-.1650	-.2980	-.2983	-.2321

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBK85) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.6000 IN. YMRP = -0.0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -3.903 BETA ( 1 ) = .164 MACH = .59620 Q = 593.85 P = 2386.4 RV/L = 4.8166

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708  
.757  
.805  
.857  
.887  
.933

.2269 -.2130 -.2023 -.2058 -.2385 -.2538  
.2191 -.2028 -.1929 -.2018 .0000 -.2531  
.2125 -.1953 -.1825 -.1862 -.2296 -.2536  
.1729 -.1805 -.1595 -.1655 -.2164 -.2503  
.1959 -.1409 -.0903 -.1037 -.1640 -.2023

ALPHA ( 2 ) = .072 BETA ( 1 ) = .163 MACH = .59620 Q = 593.87 P = 2387.1 RV/L = 4.8288

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708  
.757  
.805  
.857  
.887  
.933

.2189 -.2099 -.1962 -.2035 -.2355 -.2551  
.2156 -.2032 -.1869 -.1957 .0000 -.2504  
.2077 -.1999 -.1797 -.1840 -.2226 -.2490  
.1898 -.1788 -.1548 -.1590 -.2101 -.2468  
.1955 -.1421 -.0928 -.0907 -.1522 -.1966

ALPHA ( 3 ) = 4.077 BETA ( 1 ) = .160 MACH = .59680 Q = 595.04 P = 2386.4 RV/L = 4.8327

SECTION ( 1 ) RIGHT HAND INSIDE

Z/BV .3170 .4120 .5070 .6020 .6970 .7920  
X/CV  
.708  
.757  
.805  
.857  
.887  
.933

.2168 -.2016 -.1946 -.2049 -.2355 -.2538  
.2149 -.1920 -.1837 -.1899 .0000 -.2498  
.2049 -.1869 -.1746 -.1793 -.2232 -.2533  
.1631 -.1664 -.1508 -.1544 -.2077 -.2513  
.1895 -.1339 -.0859 -.0784 -.1461 -.2014

PARAMETRIC DATA

RUDDER = 10.000 SPDRX = .000  
BDFLAP = -11.700 L-ELVN = -10.000  
R-ELVN = 10.000 MACH = .600

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C OR8 SPEED BRAKE (XEBK05)

ALPHA ( 4 ) = 8.047 BETA ( 1 ) = .158 MACH = .59710 Q = 595.63 P = 2386.4 RN/L = 4.8284

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2170 -.2012 -.1908 -.1938 -.2315 -.2462  
 .757 -.2131 -.1893 -.1838 -.1904 .0000 -.2432  
 .805 -.2040 -.1816 -.1718 -.1789 -.2185 -.2406  
 .837 -.1683 -.1722 -.1481 -.1479 -.2052 -.2430  
 .953 -.1665 -.1355 -.0864 -.0753 -.1357 -.1934

ALPHA ( 5 ) = 12.046 BETA ( 1 ) = .156 MACH = .59710 Q = 595.63 P = 2386.4 RN/L = 4.8340

SECTION ( 1 ) RIGHT HAND INSIDE DEPENDENT VARIABLE CP

Z/BV .3170 .4120 .5070 .6020 .6970 .7920

X/CV

.708 -.2089 -.1994 -.1842 -.1951 -.2195 -.2400  
 .757 -.2039 -.1893 -.1748 -.1887 .0000 -.2348  
 .805 -.2051 -.1811 -.1651 -.1751 -.2153 -.2355  
 .837 -.1601 -.1507 -.1465 -.1451 -.1979 -.2259  
 .953 -.1379 -.1235 -.0822 -.0756 -.1297 -.1726

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XE8VD)) ( 13 AUG 75 )

## REFERENCE DATA

CREF = 2690.000 SQ.FT. XMRP = 1076.6300 IN. X0  
 LREF = 474.6000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDRK = 55.000  
 BOFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -.089 BETA ( 1 ) = -3.881 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078  
 ALPHA ( 2 ) = -.089 BETA ( 2 ) = .154 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

## SECTION ( 1 ) VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .7314 .6595 .6432 .6809 .6317  
 .025 .6130 .5192 .4572 .5967 .6320  
 .050 .6287 .5193 .4591 .5957 .6162  
 .100 .5243 .4210 .3930 .5823 .5483  
 .150 .3333 .3336 .3760 .5924 .5124  
 .200 .2191 .2027 .5743 .6547 .5170  
 .250 .3324 .6104 .7134 .6447 .6912  
 .300 .3326 .3931 .5957 .4894 .5859  
 .350 .3535 .4728 .4956 .2767 .3162

## DEPENDENT VARIABLE CP

ALPHA ( 1 ) = -.089 BETA ( 2 ) = .154 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

## SECTION ( 2 ) VERTICAL

Z/B: .1530 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .8392 .7428 .7040 .6610 .6065  
 .025 .2911 .1503 .0254 .0189 .1563  
 .050 .4659 .3564 .0906 .0385 .1745  
 .100 .4343 .2722 .2230 .3016 .4612  
 .150 .2911 .2125 .2005 .5145 .4765  
 .200 .1263 .1118 .5707 .6161 .5012  
 .250 .3392 .4225 .6299 .6402 .6163  
 .300 .3635 .2373 .4641 .5546 .4705  
 .350 .2315 .4519 .4378 .2573 .2773

## DEPENDENT VARIABLE CP

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V01)

ALPHA ( 1 ) = -4.099 BETA ( 3 ) = 4.236 MACH = 1.3933 Q = 599.80 P = 441.36 RN/L = 2.9078

SECTION 1: INVERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.7693	.6657	.6149	.5487	.4295
.025	.0992	-.0760	-.2737	-.3852	-.2622
.050	.1139	-.0803	-.3035	-.3882	-.2375
.100	.2112	.0326	-.0721	-.3176	-.1569
.150	.2097	.0796	-.0289	.1985	-.0265
.200	.0414	.0085	.3106	.4620	.3852
.250	-.3820	.3193	-.1644	.4818	.4820
.300	.775	.216	.3779	.4431	.4496
.350	-.3546	.1332	.2869	.3877	.3543
.400				.2120	-.2746

ALPHA ( 2 ) = -.076 BETA ( 1 ) = -3.908 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION 1: INVERTICAL

Z/BV .1530 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.7135	.5873	.5694	.5625	.5578
.025	.0990	-.0760	.3946	.4505	.5477
.050	.1139	-.0803	.3832	.4656	.5345
.100	.2112	.0326	.3142	.4968	.4816
.150	.2097	.0796	.2716	.5305	.4565
.200	.0414	.0085	.6038	.6050	.5041
.250	-.3820	.3193	-.1608	.6358	.5891
.300	.775	.216	.4869	.5355	.4586
.350	-.3546	.1332	.5372	.4228	.2465
.400			.4517	.2587	-.3456

ALPHA ( 2 ) = -.071 BETA ( 2 ) = .147 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION 1: INVERTICAL

Z/BV .1530 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.7545	.6711	.6248	.5653	.4806
.025	.0991	-.0760	-.0110	-.0230	-.0592
.050	.1139	-.0803	.0222	-.0065	-.0197
.100	.2112	.0326	.1657	.1654	.3415
.150	.2097	.0796	.1418	.4259	.4167
.200	.0414	.0085	.4746	.5469	.4576
.250	-.3820	.3193	.5515	.5597	-.1913
.300	.775	.216	.3856	.4408	-.2528
.350	-.3546	.1332	.3087	.2386	-.3134
.400					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV01)

ALPHA ( 2 ) = -.058 BETA ( 3 ) = 4.215 MACH = 1.3937 Q = 599.50 P = 440.89 RN/L = 2.9103

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6934	.5975	.5410	.4690	.3551
.025	-.0249	-.1424	-.3072	-.4871	-.4341
.050	.0570	-.1379	-.3416	-.4694	-.4238
.100	.1463	-.0260	-.1100	-.3457	-.3241
.200	.1469	.0474	-.0703	.2046	.0629
.300	-.0098	-.0458	.2381	.3857	.3680
.400	.520	-.1599	.3646	.4048	.4243
.500	.685	-.4163	.2535	.3029	.3556
.600	.775	-.3550	.1572	.2744	.3581
.700		.0637	.2192	.3170	.2967
.800					.2005
.900					-.3402

ALPHA ( 3 ) = 3.825 BETA ( 1 ) = -3.904 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6240	.5219	.4951	.4581	.4777
.025	.3785	.3615	.3029	.3189	.4440
.050	.4201	.3668	.3032	.3198	.4493
.100	.3429	.2721	.2428	.3651	.4160
.200	.2331	.1877	.1921	.5134	.3845
.300	.0830	.0785	.5277	.5475	.4421
.400	.695	.3751	.5732	.5221	.2183
.500	-.4015	.2625	.4672	.4803	.4131
.600	-.3556	.2625	.4019	.5766	.2418
.700		.1979	.3408	.2336	-.3654
.800					
.900					

ALPHA ( 3 ) = 3.826 BETA ( 2 ) = .146 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6583	.5953	.5359	.4672	.3861
.025	.1673	.0545	-.0520	-.0589	-.1208
.050	.3259	.2585	-.0317	-.0561	-.0784
.100	.3236	.1655	.1090	.1047	.1933
.200	.1672	.0594	.0863	.3303	.3306
.300	.0176	-.0312	.3935	.4660	.3906
.400	-.4055	.2937	.1644	.4789	.2112
.500	-.4055	.1834	.3133	.4176	.3866
.600	-.3575	.1036	.2360	.3258	.2093
.700					-.3514
.800					
.900					

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV01)

ALPHA ( 3 ) = 3.827 BETA ( 3 ) = 4.205 MACH = 1.3940 Q = 600.01 P = 441.12 RN/L = 2.9038

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.5931	.5383	.4584	.3731	.2819
.025	-.0815	-.1681	-.3504	-.4939	-.4674
.050	.0116	-.1456	-.3781	-.4806	-.4549
.150	.1046	-.0395	-.1509	-.3700	-.4221
.300	.1002	-.0119	-.0988	.0941	.0784
.520	-.0712	-.1005	.1908	.3297	.2944
.685	-.3796	.1787	-.1707	.3235	.3798
.775	-.3701	.0923	.2257	.3020	.3271
.900		.0138	.1540	.2452	.1698

ALPHA ( 4 ) = 7.859 BETA ( 1 ) = -3.903 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.5950	.4352	.4252	.3755	.3729
.025	.2433	.2822	.2285	.2400	.3011
.050	.3861	.3018	.2309	.2395	.3286
.150	.2771	.2123	.1774	.2552	.3576
.300	.1479	.1233	.1335	.4390	.3296
.520	.0350	.0328	.4538	.4867	.5923
.685	-.4138	.3375	.4946	.4555	-.2404
.775	-.3924	.2327	.3360	.3631	-.2639
.900		.1552	.2909	.3221	-.3900

ALPHA ( 4 ) = -7.859 BETA ( 2 ) = .143 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.6979	.5236	.4469	.3755	.3032
.025	.1893	.0234	-.1010	-.1072	-.1673
.050	.3470	.2013	-.0965	-.1189	-.1245
.150	.2341	.1084	.0512	.0427	.0472
.300	.1063	.0311	.0238	.2264	.2601
.520	-.0453	-.0596	.2963	.3877	.3226
.685	-.4298	.2227	.3911	.4011	-.2330
.775	-.3622	.1341	.2458	.3481	-.2971
.900		.0495	.1768	.1746	-.3795



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 4 ) = 7.869 BETA ( 3 ) = 4.207 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9058  
(XEBV01)

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5568	.5056	.3850	.2894	.2312		
.025	.0898	-.1599	-.3675	-.4812	-.4963		
.050	.1413	-.1360	-.3928	-.4858	-.4709		
.150	.2247	-.0115	-.1751	-.3400	-.4277		
.300	.0417	-.0616	-.1087	-.0198	.0263		
.500	-.1193	-.1503	.1315	.2557	.2290		
.695	-.4010	.1011	-.1785	.2875	.2600		
.775	-.3748	.0347	.1522	.2357	.2383		
.900		-.0392	.0845	.1759	.1917		

ALPHA ( 5 ) = 11.904 BETA ( 1 ) = -3.884 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6649	.4590	.3573	.2974	.2946		
.025	.3598	.2558	.1799	.1811	.2064		
.050	.4217	.2701	.1780	.1761	.2287		
.150	.2530	.1644	.1220	.1747	.2850		
.300	.0773	.0587	.0643	.3022	.2982		
.500	-.0389	-.0310	.3749	.4321	.3511		
.695	-.4197	.3210	-.1335	.4474	.4133		
.775	-.3944	.2289	.3105	.3737	.3256		
.900		.1382	.2586	.2836	.1830		

ALPHA ( 5 ) = 11.913 BETA ( 2 ) = .151 MACH = 1.3941 Q = 599.51 P = 440.55 RN/L = 2.9230

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6900	.4820	.3715	.2983	.2466		
.025	.2134	.0989	-.1232	-.1387	-.1923		
.050	.3503	.1752	-.1259	-.1531	-.1537		
.150	.2896	.0799	.0030	-.0044	-.0144		
.300	.0792	-.0090	-.0428	.0952	.1898		
.500	-.0973	-.1030	.1935	.3181	.2614		
.695	-.4439	.1671	-.1318	.3443	.3282		
.775	-.3784	.0916	.1856	.2851	.2762		
.900		.0130	.1303	.2050	.1436		

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AXES 11-07310A148) -140A/B/C/R ORB VERTICAL (XEBV011)  
 ALPHA ( 5 ) = 11.909 BETA ( 3 ) = 4.219 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9230

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.6445	.4765	.3143	.2129	.1699		
.000	.1331	-.1504	-.3590	-.4701	-.4560		
.025	.1791	-.1380	-.3921	-.4737	-.4524		
.050	.1938	-.1500	-.3991	-.3298	-.4060		
.075	.1938	-.1500	-.3991	-.0906	-.0695		
.100	.1938	-.1500	-.3991	.1795	.1503		
.125	.1938	-.1500	-.3991	.2408	.1998		
.150	.1938	-.1500	-.3991	.2420	.2779		
.175	.1938	-.1500	-.3991	.1244	-.3763		
.200	.1938	-.1500	-.3991				

ALPHA ( 6 ) = 15.872 BETA ( 1 ) = -3.862 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.7710	.5244	.3294	.2405	.2283		
.000	.1623	.1436	.1369	.1345	.1363		
.025	.1623	.1436	.1369	.1300	.1550		
.050	.1623	.1436	.1369	.1046	.2020		
.075	.1623	.1436	.1369	.1770	.2806		
.100	.1623	.1436	.1369	.4010	.3220		
.125	.1623	.1436	.1369	.3819	.2504		
.150	.1623	.1436	.1369	.3492	.2996		
.175	.1623	.1436	.1369	.2587	.4188		
.200	.1623	.1436	.1369				

ALPHA ( 5 ) = 15.886 BETA ( 2 ) = .149 MACH = 1.3935 Q = 599.60 P = 441.12 RN/L = 2.9239

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.7351	.5015	.3258	.2371	.2156		
.000	.1907	-.0203	-.1570	-.1671	-.2156		
.025	.1907	-.0203	-.1570	-.1787	-.1766		
.050	.1907	-.0203	-.1570	-.0423	-.0512		
.075	.1907	-.0203	-.1570	.0092	.1374		
.100	.1907	-.0203	-.1570	.2635	.2006		
.125	.1907	-.0203	-.1570	.2730	.2693		
.150	.1907	-.0203	-.1570	.2435	.3179		
.175	.1907	-.0203	-.1570	.1676	.4131		
.200	.1907	-.0203	-.1570				

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TABULATED PRESSURE DATA - OA14B ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV01)

ALPHA ( 6 ) = 15.901    BETA ( 3 ) = 4.249    I:ACH = 1.3935    Q = 599.60    P = 441.12    RV/L = 2.9239

SECTION (1) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XESV02) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 SREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -4.081 BETA ( 1 ) = -3.888 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7135 .6253 .6050 .4214 .6380 .5703  
 .025 .6052 .4631 .4214 .5905 .5897  
 .050 .5109 .4640 .4136 .5807 .5691  
 .100 .4321 .3671 .3615 .5401 .4948  
 .150 .3285 .2811 .4358 .5317 .4516  
 .200 .1636 .1562 .6127 .5714 .4171  
 .250 .3926 .5012 .6494 .5306 .5754 .2924  
 .300 .3352 .3382 .5088 .5317 .3908 .3042  
 .350 .3182 .4026 .4088 .3754 .1620 .4047

ALPHA ( 1 ) = -4.075 BETA ( 2 ) = .154 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3219 .6931 .6646 .6842 .6561  
 .025 .2922 .0915 .0367 .1377 .1514  
 .050 .4516 .3021 .0489 .2111 .2456  
 .100 .3981 .2184 .1660 .3985 .4053  
 .150 .2224 .1474 .1594 .4589 .4166  
 .200 .0625 .0565 .5533 .5549 .4096  
 .250 .4365 .3773 .5950 .5535 .5294  
 .300 .3475 .2143 .4461 .4891 .4891  
 .350 .3475 .2143 .3780 .3542 .3842

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBVD2)

ALPHA ( 1 ) = -4.083 BETA ( 3 ) = 4.234 MACH = 1.2475 Q = 599.57 P = 550.40 RN/L = 3.0108

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7589	.6203		.5766		.4802	.3690
.025	.0908	-.1614		-.3532		-.3690	-.1169
.050	.1169	-.1453		-.3845		-.3632	-.1078
.100	.2112	-.0006		-.1278		-.3122	-.1021
.150	.1405	.0206		-.0547		-.0774	-.1467
.200	-.0222	-.0574		.3215		.5282	.0976
.250	-.4832	.2736	-.1381	.3998	.4990	.5357	-.1785
.300	-.3355	.1765	.3517	.3917	.4079	.3632	-.2663
.350		.1098	.2515	.3230	.2817	.1321	-.3387

ALPHA ( 2 ) = -.037 BETA ( 2 ) = .147 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7051	.5522		.5229		.5530	.4879
.025	.5255	.3937		.3385		.4969	.5176
.050	.5403	.3942		.3308		.4862	.4972
.100	.4243	.2912		.2621		.4645	.4288
.150	.2602	.2055		.2869		.4709	.3914
.200	.0920	.0787		.5532		.5305	.3797
.250	-.4438	.4044	-.1299	.5904	.5690	.5232	-.3036
.300	-.3196	.2981	.4517	.4752	.4587	.3601	-.3452
.350		.2531	.3594	.3652	.3313	.1376	-.4374

ALPHA ( 2 ) = -.032 BETA ( 2 ) = .147 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7658	.6245		.5830		.5341	.5377
.025	.2250	.0356		-.0932		-.1006	.0837
.050	.3899	.2420		-.0376		-.0868	.1449
.100	.3339	.1525		.1011		.3026	.3375
.150	.1651	.0818		.0770		.3968	.3576
.200	.0002	-.0146		.4639		.4968	.3730
.250	-.4940	.3070	-.1179	.5131	.5281	.4923	-.3202
.300	-.3490	.1801	.3524	.4255	.4338	.3390	-.3645
.350		.1259	.2740	.3300	.3097	.1204	-.4211

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ALPHA ( 2 ) = -.039 BETA ( 3 ) = 4.211 MACH = 1.2477 Q = 599.51 P = 550.16 RN/L = 3.0131  
(XEBV02)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

DEPENDENT VARIABLE CP

SECTION 1 INVERTICAL

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6910	.5546	.4990	.4175	.2831		
.000	-.0074	-.1389	-.3839	-.5102	-.2989		
.025	.0267	-.1950	-.4187	-.5083	-.2814		
.050	.1450	-.0731	-.1886	-.3409	-.2630		
.075	.0929	-.0193	-.1289	-.0810	-.1747		
.100	-.0771	-.1131	.2475	.3874	.3987		
.125	-.5023	.2111	-.1284	.3943	.3843		
.150	-.3955	.1045	.2695	.3354	.2710		
.175		.0243	.1799	.2305	.0797		
.200							

ALPHA ( 3 ) = 3.858 BETA ( 1 ) = -3.910 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

DEPENDENT VARIABLE CP

SECTION 1 INVERTICAL

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6910	.4950	.4413	.4530	.4125		
.000	.3313	.3034	.2524	.3766	.4347		
.025	.4234	.3155	.2517	.3824	.4185		
.050	.3333	.2251	.1865	.3845	.3573		
.075	.1556	.1351	.1579	.4070	.3274		
.100	.0129	.0152	.4867	.4772	.3619		
.125	-.0534	.2241	.5075	.4559	-.3372		
.150	-.3354	.2139	.3780	.4046	.3189		
.175		.1740	.2930	.2847	.1112		
.200							

ALPHA ( 3 ) = 3.259 BETA ( 2 ) = .139 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

DEPENDENT VARIABLE CP

SECTION 1 INVERTICAL

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6910	.5554	.4957	.4380	.3626		
.000	.1790	-.0052	-.1383	-.1395	-.0498		
.025	.3401	.1811	-.0950	-.1336	-.0431		
.050	.2829	.0998	.0376	.0900	.2683		
.075	.1134	.0207	.0176	.3255	.2992		
.100	-.0807	-.0690	.3749	.4297	.3236		
.125	-.5035	.2179	.4357	.4485	.4336		
.150	-.3530	.1262	.3518	.3699	.3874		
.175		.0549	.2714	.2576	.0921		
.200							

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R OR8 VERTICAL

(XEBV02)

ALPHA ( 3 ) = 3.860 BETA ( 3 ) = 4.204 MACH = 1.2468 Q = 599.65 P = 551.10 RN/L = 3.0140

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6203	.4390	.4181	.3434	.2072
.025	-.0397	-.2372	-.4232	-.5432	-.4139
.050	.0355	-.2227	-.4535	-.5360	-.3976
.100	.0905	-.1034	-.4272	-.4654	-.3354
.200	.0452	-.0629	-.1647	.1095	-.1941
.300	-.1448	-.1731	.1807	.3012	.3264
.400	-.4419	.1322	.3045	.3203	.3118
.500	-.775	-.3222	.1920	.2697	-.2906
.600	-.900	-.0439	.1127	.2093	.2337
				.1890	.3301
				.0664	-.4293

ALPHA ( 4 ) = 7.842 BETA ( 1 ) = -3.905 MACH = 1.2465

RN/L = 3.0137

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6461	.4548	.3709	.3389	.3396
.025	.3350	.2339	.1710	.2428	.3595
.050	.3794	.2549	.1760	.2607	.3461
.100	.2692	.1606	.1195	.3101	.2932
.200	.1136	.0522	.0837	.3599	.2640
.300	-.0187	-.0287	.4150	.4193	.3116
.400	-.5165	.2850	.4437	.3895	-.3518
.500	-.3963	.1732	.3065	.3499	.2749
.600	.1071	.2361	.2710	.2395	.0851
					-.5119

ALPHA ( 4 ) = 7.841 BETA ( 2 ) = .143 MACH = 1.2465

RN/L = 3.0137

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6955	.4890	.4139	.3467	.2544
.025	.2002	-.0398	-.1836	-.1874	-.2031
.050	.3279	.1576	-.1290	-.1833	-.1742
.100	.2444	.0485	-.0162	-.0174	.1754
.200	.0495	-.0357	-.0424	.2539	.2374
.300	-.1125	-.1227	.2921	.3639	.2714
.400	-.5299	.1888	.3655	.3664	-.3487
.500	-.3706	.0773	.2085	.3097	-.2608
.600	-.0224	.1377	.2146	.2096	.0679
					-.4782

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XE8V02)

ALPHA ( 4 ) = 7.841 BETA ( 3 ) = 4.209 MACH = 1.2465 Q = 599.60 P = 551.34 RN/L = 3.0137

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6345	.4677	.3495	.2547	.1399
.025	.0887	-.2388	-.4512	-.5949	-.5568
.050	.1304	-.2124	-.4913	-.5891	-.5254
.100	.1508	-.0737	-.2548	-.3677	-.4159
.150	-.0178	-.1175	-.1758	-.0118	-.1035
.200	.1831	-.2233	.1440	.2454	.1708
.250	-.1881	.0816	.2843	.2783	-.2456
.300	-.4681	-.0119	.1245	.2201	-.3508
.350	-.4053	-.0597	.1492	.1488	-.4348

ALPHA ( 5 ) = 11.942 BETA ( 1 ) = -3.887 MACH = 1.2452 Q = 599.20 P = 552.04 RN/L = 3.0172

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6748	.4301	.3106	.2527	.2596
.025	.0919	.1850	.1201	.1586	.2990
.050	.1328	.2082	.1215	.1689	.2930
.100	.1533	.0435	.0868	.2372	.2445
.150	.0354	.0016	.0257	.3235	.2078
.200	-.0629	-.0817	.3596	.3720	.2611
.250	-.5217	.2959	-.1472	.3923	-.3490
.300	-.5239	.1615	.2750	.3103	-.4143
.350	.0728	.0728	.2379	.1987	-.5211

ALPHA ( 6 ) = 11.952 BETA ( 2 ) = .148 MACH = 1.2452 Q = 599.20 P = 552.04 RN/L = 3.0172

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6765	.4455	.3391	.2602	.1780
.025	.1876	.0573	-.2229	-.2295	-.2772
.050	.2089	.1142	-.1879	-.2343	-.2340
.100	.2251	.0072	-.0648	-.0724	.0921
.150	.0134	-.0763	-.0958	.1812	.1756
.200	-.1541	-.1394	.2240	.2977	.2159
.250	-.5495	.1324	-.1386	.3063	-.3608
.300	-.4015	.0360	.1557	.2503	-.3985
.350	-.0394	-.0394	.0925	.1559	-.0388



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V02)

RN/L = 3.0172

P = 552.04

Q = 599.20

MACH = 1.2452

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ALPHA ( 5 ) = 11.946 BETA ( 3 ) = 4.215

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6850	.4286	.2764	.1647	.0748
.025	.0857	-.2412	-.4594	-.5886	-.5735
.050	.1356	-.2245	-.4957	-.5840	-.5531
.100	.1590	-.1043	-.2896	-.3635	-.4405
.200	-.0337	-.1532	-.2080	-.0812	-.0004
.300	-.2195	-.2543	.0843	.1759	.0952
.400	-.5084	.0336	.2030	.2227	-.2554
.500	-.4213	-.0505	.1472	.1489	-.3675
.600		-.1243	.0843	.1008	-.4503

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV03) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.6000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0800 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDRK = 55.000  
 BDFLAP = 16.300 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.048 BETA ( 1 ) = -3.881 MACH = 1.0978 Q = 589.56 P = 710.72 RN/L = 3.1865

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5336 .5433 .5444 .5671 .5248  
 .025 .5327 .5608 .5676 .5277 .5095  
 .050 .5237 .5674 .5698 .5108 .4898  
 .150 .3544 .2732 .3392 .4528 .4095  
 .300 .2660 .1303 .3752 .4330 .3542  
 .450 .0659 .1127 .5203 .4657 .2966  
 .600 .5183 .4169 .5575 .5377 .4641 .4061  
 .750 .2129 .3129 .4008 .2570 .4562  
 .900 .1273 .1934 .2927 .2452 .3107 .5214

ALPHA ( 2 ) = -4.235

BETA ( 2 ) = .153 MACH = 1.0978 Q = 539.56 P = 719.72 RN/L = 3.1865

## SECTION ( 2 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5195 .5190 .5100 .6719 .6050  
 .025 .5184 .5184 .5140 .6931 .6560  
 .050 .5184 .5184 .5140 .6931 .6560  
 .150 .5184 .5184 .5140 .6931 .6560  
 .300 .5184 .5184 .5140 .6931 .6560  
 .450 .5184 .5184 .5140 .6931 .6560  
 .600 .5184 .5184 .5140 .6931 .6560  
 .750 .5184 .5184 .5140 .6931 .6560  
 .900 .5184 .5184 .5140 .6931 .6560

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TABULATED PRESSURE DATA - DAI48 ( AMES 11-073-1 )

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(XEBV03)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = -4.044 BETA ( 3 ) = 4.236 MACH = 1.0978 Q = 599.56 P = 710.72 RN/L = 3.1865

SECTION ( 1 ) VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6798 .5+02 .5098 .3875 .3207  
 .025 .0404 .-3+03 .-5118 .-2486 .-0594  
 .050 .0530 .-2+05 .-5032 .-2340 .-0453  
 .100 .1247 .-0637 .-2072 .-2531 .-0294  
 .150 .0168 .-0957 .-0555 .-1958 .-0779  
 .200 .-1285 .-1655 .-2786 .3937 .-3777  
 .250 .-5552 .2102 .-1762 .3417 .4468 .4741 .-1761  
 .300 .-3549 .-1152 .2913 .3132 .3256 .-2764  
 .350 .0749 .1879 .2074 .1673 .0898 .-3854

ALPHA ( 2 ) = -.027 BETA ( 1 ) = -3.903 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION ( 1 ) VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6+82 .4855 .4533 .4772 .4212  
 .025 .45+0 .2930 .-2600 .4510 .4476  
 .050 .4673 .3009 .-2562 .4383 .4277  
 .100 .329+ .2047 .-2290 .3932 .3503  
 .150 .1612 .1210 .-2965 .3813 .3055  
 .200 .-0042 .-0545 .4708 .4173 .2561  
 .250 .-5365 .3513 .-1446 .4844 .4246 .-4254  
 .300 .-2788 .2571 .-3645 .3591 .2252 .-4750  
 .350 .1766 .2453 .2097 .-0177 .-5265

ALPHA ( 2 ) = -.023 BETA ( 2 ) = .144 MACH = 1.0988 Q = 599.62 P = 709.54 RN/L = 3.1868

SECTION ( 1 ) VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7097 .5505 .5264 .5868 .5083  
 .025 .1894 .-0620 .-1801 .0452 .0200  
 .050 .335+ .1503 .-0+19 .1729 .1389  
 .100 .2+33 .0698 .0206 .2667 .2628  
 .150 .0762 .00+6 .1545 .3192 .2657  
 .200 .-084+ .-03+3 .4321 .4077 .2499  
 .250 .-5156 .2569 .-1372 .4579 .3941 .-4298  
 .300 .-2765 .166+ .3258 .3400 .2048 .-4646  
 .350 .1345 .2098 .2230 .1903 .-0328 .-5233

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TABULATED PRESSURE DATA - 00148 : PAGES 11-073-1

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AMES 11-07310A148 - 140A/B/C/R ORA VERTICAL

(25.8703)

ALPHA ( 2 ) = 029 BETA ( 3 ) = 4.209 + = : 0028 Q = 525.1 P = 710.01 RN/L = 3.1858

SECTION 11 VERTICAL

DEF INERT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .850 .9250

X/CV

.000	.6380	.4791	.4231	.85	.2057
.025	-.0427	-.3569	-.5381	.72	-.1797
.050	-.0237	-.3014	-.5503	.429	-.1646
.150	.0875	-.1217	-.2855	.210	-.1595
.300	-.0249	-.1336	-.1872	.370	-.2336
.450	-.1924	-.2224	-.2425	.376	-.0419
.600	-.5413	.1360	-.1536	.4063	-.3084
.750	-.3766	.0396	.2351	.2163	-.4013
.900	-.0435	.1478	.1883	.119E	-.4866

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -2.903 MACH = 1.0982 Q = 509.43 P = 710.01 RN/L = 3.1855

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .850 .9250

X/CV

.000	.5113	.4303	.3718	.3894	.3343
.025	.3422	.2155	.1771	.3648	.3804
.050	.3765	.2314	.1723	.3555	.3578
.150	.2548	.1333	.1103	.3260	.2871
.300	.1076	.0458	.1821	.3303	.2581
.450	-.0644	-.0777	.4221	.3839	.2235
.600	-.6053	.2849	-.1374	.4226	.3777
.750	-.3222	.1776	.3147	.3107	.2013
.900	-.1323	.1323	.2112	.1718	-.0359

ALPHA ( 2 ) = 0.894 BETA ( 2 ) = .147 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .850 .9250

X/CV

.000	.6538	.4946	.4443	.4623	.4207
.025	.1537	-.1090	-.2339	-.0434	-.0412
.050	.2993	.1030	-.1346	.0469	.0891
.150	.2040	.0106	-.0403	.2034	.2069
.300	.0161	-.0501	-.0524	.2631	.2165
.450	-.1350	-.1519	.3617	.3557	.2035
.600	-.5523	.1918	.3949	.3453	-.4401
.750	-.3574	.0694	.2899	.1739	-.4905
.900	-.0733	.0737	.1807	-.0635	-.5287

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ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.201 MACH = 1.0982 Q = 599.43 P = 710.01 RN/L = 3.1855  
(XE8V03)

SECTION ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.5965	.4271	.3447	.2363	.1069				
.000	.0769	-.3728	-.6271	-.5829	-.2870				
.025	-.0323	-.3299	-.6311	-.5640	-.2678				
.050	.0352	-.1743	-.3039	-.4647	-.2524				
.100	.0623	-.1746	-.2796	-.1525	-.3081				
.200	-.2570	-.2997	.1723	.3106	.2079				
.300	-.5018	.0668	.2674	.3077	.3120				
.400	-.3600	-.0311	.1752	.2205	.1570				
.500		-.0108	.0934	.0889	-.0731				

ALPHA ( 4 ) = 7.885 BETA ( 1 ) = -3.898 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.6147	.3788	.2963	.3080	.2384				
.000	.025	.1469	.0914	.3135	.3363				
.025	.3558	.1682	.0907	.3102	.3192				
.050	.2100	.0613	.0392	.3030	.2540				
.100	.300	-.0304	.0903	.3061	.3228				
.200	-.1215	-.1099	.3910	.3650	.2015				
.300	-.6326	.2417	.4271	.3899	.3263				
.400	.775	.1336	.2951	.2887	.1716				
.500		.1251	.2096	.1539	-.0477				

ALPHA ( 4 ) = 7.885 BETA ( 2 ) = .144 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.6517	.4338	.3603	.2963	.3251				
.000	.1452	-.1538	-.2897	-.2918	-.1024				
.025	.2638	.0509	-.2374	-.2930	.0193				
.050	.1590	-.0492	-.1122	.1353	.1474				
.100	-.0445	-.1295	-.1406	.2110	.1664				
.200	-.2053	-.2153	.2772	.3032	.1705				
.300	-.5851	.1169	.3391	.3369	.2934				
.400	-.3307	.0668	.1934	.2445	.1435				
.500		.0658	.1178	.1133	-.0837				

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV03)

ALPHA ( 4 ) = 7.886 BETA ( 3 ) = 4.200 MACH = 1.0976 Q = 599.10 P = 710.48 RN/L = 3.1859

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/B7 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C7

.000	.6024	.3734	.2662	.1631	.0005
.025	-.0269	-.3825	-.6503	-.7486	-.4831
.050	.0147	-.3280	-.6584	-.7352	-.4732
.100	.0612	-.2054	-.3474	-.4579	-.5152
.200	-.1263	-.2330	-.3104	-.0154	-.2557
.300	-.3120	-.3384	.1115	.2060	.1396
.400	-.5327	.0101	-.1318	.2296	.1915
.500	-.775	-.4008	.0868	.1874	-.3713
.600		-.1101	.0328	.1096	.1089
				-.0671	-.4358
					-.4725

ALPHA ( 5 ) = 11.990 BETA ( 1 ) = -3.881 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1856

SECTION 2: VERTICAL

DEPENDENT VARIABLE CP

Z/B7 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C7

.000	-.6484	.3637	.2300	.2224	.1382
.025	.1972	.0586	.0505	.2899	.3155
.050	.2822	.1132	.0492	.2810	.2908
.100	.1475	.0150	-.0011	.2658	.2211
.200	-.0433	-.0770	.0287	.2777	.1826
.300	-.1550	-.1343	.3745	.3216	.1857
.400	-.5326	.2217	.1376	.3662	.2847
.500	-.7424	.1054	.3110	.2670	.4463
.600		.1520	.2236	.1517	-.5134
			.1883	.1286	-.5800

ALPHA ( 5 ) = 11.997 BETA ( 2 ) = .149 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1855

SECTION 3: VERTICAL

DEPENDENT VARIABLE CP

Z/B7 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C7

.000	.6544	.3907	.2899	.2039	.2477
.025	.1110	-.1971	-.3292	-.3638	-.1440
.050	.2329	.0669	-.2904	-.3614	-.0686
.100	.1131	-.0315	-.1652	.0173	.1019
.200	-.1237	-.1755	-.1994	.1717	.1389
.300	-.3246	-.2546	.2061	.2646	.1341
.400	-.5041	.0724	.2849	.2551	-.4430
.500	-.7457	-.0440	.1427	.2116	.1257
.600		-.0123	.0910	-.0905	-.5396

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.992 BETA ( 3 ) = 4.212 MACH = 1.0978 O = 599.38 P = 710.48 RN/L = 3.1856  
(XEBV03)

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP  
X/CV .000 .6305 .3570 .1959 .0548 .1156  
.025 .0110 .4000 .6592 .7050 .4706  
.050 .0608 .3423 .6505 .7169 .4704  
.150 .0615 .2178 .4063 .4075 .5248  
.300 .1573 .2697 .3430 .1799 .2576  
.520 .3478 .3719 .0495 .1775 .0103  
.685 .5707 .0332 .1732 .2106 .3514  
.775 .1347 .0268 .1192 .1054 .4041  
.900 .4300 .0284 .0557 .0256 .0918 .4869





DATE 14 FEB 76

TAGULATED PRESSURE DATA - OA.48 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL (XE8V04)

ALPHA ( 1 ) = -4.047 BETA ( 3 ) = 4.237 MACH = .89913 Q = 599.67 P = 1059.7 RN/L = 3.5733

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4875	.3526	.3469	.3028	.3028	.2340	
.025	-.1827	-.16680	-.15558	-.1871	-.1528		
.050	-.1087	-.5903	-.5448	-.1847	-.1342		
.150	-.1452	-.3108	-.5027	-.1931	-.1205		
.300	-.2278	-.3020	-.2643	-.2059	-.1516		
.520	-.3550	.0044	.2654	-.1030	-.3062		
.695	-.3678	.2319	.3205	.1466	-.1250	-.3279	
.775	-.1933	.0966	.2245	.2152	-.0907	-.3418	
.900	-.0315	.0192	.0442	.0570	-.1222	-.3777	

ALPHA ( 2 ) = -.025 BETA ( 1 ) = -3.907 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4418	.2745	.3142	.4089	.3497		
.025	.3178	.1974	.3538	.3987	.3403		
.050	.2933	.1324	.3219	.3770	.3166		
.150	.1510	.1038	.2758	.2980	.2286		
.300	.0339	.0430	.2708	.2615	.1574		
.520	-.1162	.1493	.3512	.2939	.0627		
.695	-.2423	.3318	.3895	.3600	-.2936		
.775	-.2195	.2045	.2661	.1981	-.3092		
.900		.0866	.0916	.0559	.0025	-.1644	-.3147

ALPHA ( 2 ) = -.020 BETA ( 2 ) = .144 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5279	.3881	.5044	.5077	.4060		
.025	.0221	-.2984	-.1915	-.0564	-.1387		
.050	.1170	-.0530	.0599	.1013	.0542		
.150	.0112	-.0931	.0843	.1427	.1076		
.300	-.1337	-.1153	.1553	.1745	.0927		
.520	-.2578	.0675	.2977	.2435	.0482		
.695	-.2932	.2773	-.1704	.3092	.2224	-.3306	
.775	-.2163	.1487	.1919	.1611	-.0009	-.3340	
.900		.0305	.0164	-.0327	-.1969	-.3436	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBVD4)

ALPHA ( 2 ) = -.027 BETA ( 3 ) = 4.215 MACH = .89827 Q = 599.10 P = 1060.7 RN/L = 3.5698

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4322	.2753	.2588	.2199	.1455
.025	-.2621	-.7301	-.5977	-.2120	-.1698
.050	-.1746	-.6444	-.5563	-.2094	-.1568
.100	-.1932	-.3650	-.5398	-.2141	-.1438
.150	-.2930	-.3801	-.2942	-.2266	-.1789
.200	-.4440	-.0105	.2572	-.1199	-.3161
.250	-.2965	.2166	.3399	.1914	-.1425
.300	-.2235	.0847	.1842	.2177	-.3147
.350	-.0332	-.0332	.0049	.0286	-.3471

ALPHA ( 3 ) = 3.893 BETA ( 1 ) = -3.912 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3897	.2259	.2328	.3311	.2733
.025	.2401	.1487	.3375	.3699	.3137
.050	.2341	.1509	.3072	.3511	.2922
.100	.1052	.0789	.2584	.2748	.1990
.150	.2025	.0162	.2541	.2371	.1340
.200	-.1682	.1421	.3654	.2514	.0418
.250	-.2441	.3357	.3547	.3192	-.2388
.300	-.2135	.2091	.2131	.1708	.0037
.350	.0530	.0795	.0366	-.0209	-.1602

ALPHA ( 3 ) = 3.356 BETA ( 2 ) = .152 MACH = .89833 Q = 598.89 P = 1060.2 RN/L = 3.5704

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4958	.3757	.4509	.4461	.3387
.025	-.0071	-.3532	-.1804	-.0704	-.1327
.050	.0864	-.0033	.0417	.1071	.0359
.100	.0593	-.1250	.0652	.1125	.0768
.150	-.0749	-.1452	.1338	.1418	.0632
.200	.3672	.2533	.2594	.2057	.0178
.250	-.2614	.2753	.3061	.2671	.1834
.300	-.2184	.2739	.1931	.1242	-.3096
.350	.2184	.2739	.1931	.1242	-.3096

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) - 140A/B/C/R ORB VERTICAL

(XEBVD4)

ALPHA ( 3 ) = 3.839 BETA ( 3 ) = 4.208 MACH = .89833 Q = 596.69 P = 1060.2 RN/L = 3.5704

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3747	.2310	.1773	.1542	.0628
.025	-.2918	-.7478	-.5547	-.2174	-.1825
.050	-.2059	-.7031	-.5416	-.2103	-.1688
.100	-.2071	-.4271	-.5423	-.2141	-.1554
.300	-.3485	-.4102	-.3202	-.2348	-.1878
.500	-.4912	.0188	.2344	-.1327	-.3122
.695	-.2707	.2229	.2964	.1702	-.1644
.775	-.2340	.0938	.1461	.1867	-.1181
.900	-.0231	-.0222	.0039	-.1353	-.3108

ALPHA ( 4 ) = 7.895 BETA ( 1 ) = -3.903 MACH = .89900 Q = 539.51 P = 1059.7 RN/L = 3.5708

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3430	.1655	.1827	.2666	.2028
.025	.1829	.1114	.2955	.3313	.2736
.050	.1320	.1138	.2668	.3134	.2511
.100	.0526	.0342	.2274	.2427	.1562
.300	-.0618	-.0147	.2262	.2071	.0974
.500	-.2050	.1205	.2591	.2229	.0143
.695	-.2696	.3323	.3237	.2850	.2537
.775	-.2310	.2186	.1825	.1374	-.0170
.900	.1102	.0781	.0209	-.0486	-.2581

ALPHA ( 4 ) = 7.900 BETA ( 2 ) = .140 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4637	.2689	.3914	.3867	.2705
.025	-.1222	-.3420	-.2091	-.0803	-.1547
.050	.0311	-.1345	.0103	.1051	.0130
.100	-.0777	-.1681	.0464	.0867	.0524
.300	-.2051	-.1674	.1207	.1147	.0372
.500	-.3091	.0499	.2421	.1701	-.0120
.695	-.2573	.2595	-.1541	.2301	.1435
.775	.1927	.1393	.1393	.0968	-.0526
.900	.0245	-.0275	-.0865	-.2355	-.3354

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CALCULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140.78/C/R ORB VERTICAL

(XEBVON)

ALPHA ( 4 ) = 7.897 BETA ( 3 ) = 4.209 MACH = .89900 Q = 599.51 P = 1059.7 RN/L = 3.5708

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000 .3334 .1774 .1204 .0866 -.0091  
 .025 .2444 -.7595 -.5506 -.2233 -.1932  
 .050 .1511 -.7115 -.5313 -.2210 -.1856  
 .075 .1972 -.4447 -.5526 -.2267 -.1683  
 .100 .7557 -.3799 -.2608 -.2495 -.2129  
 .125 .4311 .0137 .2092 -.1333 -.3261  
 .150 .2093 .1887 -.1668 .2011 -.1422 -.2684  
 .175 .2214 .0557 .1347 .1571 -.1117 -.2773  
 .200 .0312 -.0304 -.0259 -.0333 -.1199 -.2792

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000 .3334 .1774 .1204 .0866 -.0091  
 .025 .2444 -.7595 -.5506 -.2233 -.1932  
 .050 .1511 -.7115 -.5313 -.2210 -.1856  
 .075 .1972 -.4447 -.5526 -.2267 -.1683  
 .100 .7557 -.3799 -.2608 -.2495 -.2129  
 .125 .4311 .0137 .2092 -.1333 -.3261  
 .150 .2093 .1887 -.1668 .2011 -.1422 -.2684  
 .175 .2214 .0557 .1347 .1571 -.1117 -.2773  
 .200 .0312 -.0304 -.0259 -.0333 -.1199 -.2792

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000 .3334 .1774 .1204 .0866 -.0091  
 .025 .2444 -.7595 -.5506 -.2233 -.1932  
 .050 .1511 -.7115 -.5313 -.2210 -.1856  
 .075 .1972 -.4447 -.5526 -.2267 -.1683  
 .100 .7557 -.3799 -.2608 -.2495 -.2129  
 .125 .4311 .0137 .2092 -.1333 -.3261  
 .150 .2093 .1887 -.1668 .2011 -.1422 -.2684  
 .175 .2214 .0557 .1347 .1571 -.1117 -.2773  
 .200 .0312 -.0304 -.0259 -.0333 -.1199 -.2792

SECTION 4 VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000 .3334 .1774 .1204 .0866 -.0091  
 .025 .2444 -.7595 -.5506 -.2233 -.1932  
 .050 .1511 -.7115 -.5313 -.2210 -.1856  
 .075 .1972 -.4447 -.5526 -.2267 -.1683  
 .100 .7557 -.3799 -.2608 -.2495 -.2129  
 .125 .4311 .0137 .2092 -.1333 -.3261  
 .150 .2093 .1887 -.1668 .2011 -.1422 -.2684  
 .175 .2214 .0557 .1347 .1571 -.1117 -.2773  
 .200 .0312 -.0304 -.0259 -.0333 -.1199 -.2792

DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 5 ) = 11.982 BETA ( 3 ) = 4.222 MACH = .89830 Q = 599.10 P = 1060.7 RN/L = 3.5735  
(XEBVON)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3509	.1576		.0395		-.0211	-.1411
.025	-.1134	-.6066		-.7480		-.2989	-.2628
.050	-.0545	-.4932		-.7268		-.3003	-.2385
.100	-.1457	-.3810		-.5587		-.3125	-.2220
.150	-.3199	-.3346		-.1498		-.3127	-.2659
.200	-.7739	-.0551		.1495		-.0940	-.3564
.250	-.3148	.1354	-.2000	.1971	.1847	-.0753	-.2927
.300	-.1255	.0201	.0704	.0713	.0887	-.0512	-.2942
.350		-.0718	-.0864	-.0808	-.0820	-.1305	-.2760



DATE 14 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA 1) = -3.973 BETA ( 3) = .156 MACH = .59580 0 = 593.15 P = 2387.2 RN/L = 4.8118  
AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V05)

SECTION 1 - VERTICAL

Z/B	.1580	.3170	.4590	.6020	.6370	.8390	.9250
X 0							
.000	.5172	.4731		.5439		.5071	.4501
.025	-.0034	-.2763		-.1856		-.0355	-.2334
.050	.1129	.0077		.0478		.0649	.0429
.075	.0444	-.0222		.0753		.0870	.0649
.100	.0508	-.0510		.1200		.1222	.0545
.125	.0452	-.0788		.2109		.1908	.0150
.150	-.0452	.0045	-.1542	.2705	.2471	.1844	-.2210
.175	-.0452	.0071	.1128	.0018	.0743	.0040	-.2317
.200	-.0452	-.0094	-.1175	-.1233	-.1211	-.1034	-.2266

ALPHA 1) = -3.981 BETA ( 4) = 4.231 MACH = .59580 0 = 593.15 P = 2387.2 RN/L = 4.8118

SECTION 1 - VERTICAL

Z/B	.1580	.3170	.4590	.6020	.6370	.8390	.9250
X 0							
.000	.3387	.2142		.2645		.0860	.1018
.025	.0255	-.0044		-.3880		-.3899	-.7894
.050	.0317	.0325		-.3416		-.3450	-.6491
.075	.0383	.0320		-.2329		-.2545	-.2250
.100	.1186	.1951		-.0758		-.0763	-.0686
.125	.0021	-.0023		.0698		.0879	-.0230
.150	-.0288	.0319	-.1532	.1145	.1648	.1047	-.2509
.175	-.0288	.0333	.0565	-.0072	.0250	-.0318	-.2601
.200	-.0288	-.1675	-.1637	-.1791	-.1548	-.1082	-.2384

ALPHA 1) = -3.955 BETA ( 5) = 8.308 MACH = .59580 0 = 593.15 P = 2387.2 RN/L = 4.8118

SECTION 1 - VERTICAL

Z/B	.1580	.3170	.4590	.6020	.6370	.8390	.9250
X 0							
.000	-.0437	-.0213		-.3193		-.3773	-.2231
.025	.0541	.02976		-.6867		-.5606	-.4815
.050	.0513	-.0040		-.6853		-.5649	-.4405
.075	.0717	.0043		-.6215		-.5524	-.3853
.100	.0717	.0043		-.5577		-.5071	-.3473
.125	.0717	.0182		-.3325		-.3118	-.3194
.150	.0717	.0182	-.1220	-.0205	-.1817	-.2594	-.3026
.175	.0717	.0182	.0211	-.0200	-.1986	-.2159	-.3081
.200	.0717	.0182	-.1857	-.1245	-.2622	-.2093	-.2835





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL  
(XE8V05)

ALPHA ( 2 ) = .008 BETA ( 4 ) = 4.214 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3028	.1452		.1903		-.0035	-.0035
.025	-.3153	-.5215		-.4114		-.3994	-.7827
.050	-.2807	-.4790		-.3597		-.3729	-.6347
.100	-.2494	-.3583		-.2678		-.3396	-.2969
.150	-.2203	-.2155		-.1307		-.0881	-.0551
.200	-.2017	-.0095		.0530		.0915	-.0341
.250	-.2878	.1263	-.1426	.0826	.1261	.1248	-.2436
.300	-.2520	.0036	.0411	-.0230	-.0143	-.0152	-.2260
.350		-.1853	-.1801	-.1962	-.1043		-.2025

ALPHA ( 2 ) = .003 BETA ( 5 ) = 8.269 MACH = .59552 Q = 592.56 P = 2387.2 RN/L = 4.8092

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0899	-.4996		-.3985		-.3838	-.2804
.025	-.6160	-.9781		-.7037		-.4959	-.3692
.050	-.6233	-.8548		-.6970		-.4964	-.3733
.100	-.7650	-.9536		-.6655		-.4856	-.3314
.150	-.3637	-.4422		-.6143		-.4764	-.2956
.200	-.7441	-.1018		-.3480		-.3321	-.2806
.250	-.2950	.0441	-.1527	-.2205	-.2467	-.2824	-.2325
.300	-.2617	-.0423	-.0084	-.1606	-.2118	-.2497	-.2465
.350		-.2000	-.2230	-.1931	-.2503	-.2088	-.2588

ALPHA ( 3 ) = 3.907 BETA ( 1 ) = -7.936 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0686	-.3743		-.3783		-.1557	-.1365
.025	.4095	.3699		.4429		.4243	.3573
.050	.3665	.3276		.4162		.3954	.3283
.100	.2203	.2146		.3212		.3033	.2144
.150	.0937	.1249		.2094		.2379	.1448
.200	-.1333	.1569		.2806		.2243	.0366
.250	-.2532	.2846	-.1353	.2739	.2695	.1934	-.1326
.300	-.2313	.1754	.1717	.1325	.1277	.0557	-.1343
.350		-.0101	-.0721	-.0633	-.0524	-.0401	-.1036

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV05)

ALPHA ( 3 ) = 3.912 BETA ( 2 ) = -3.897 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4530	.6020	.6970	.8390	.9250
X/CV							
.000	.2865	.1330	.1368	.2237	.2237	.1493	
.025	.2421	.1800	.3053	.2053	.2053	.2593	
.050	.2105	.2193	.2682	.2830	.2830	.2367	
.100	.2200	.2983	.2614	.2012	.2012	.1436	
.300	.0131	.0169	.2935	.1644	.1644	.0870	
.520	.2430	.1334	.2325	.1343	.1343	.0288	
.695	.2661	.0303	.1246	.2373	.1826	.1458	
.775	.2220	.0114	.0318	.0917	.0334	.1451	
.900		.0022	.1153	.0022	.0872	.0577	.1393

ALPHA ( 3 ) = 3.909 BETA ( 3 ) = .143 MACH = .59500 Q = 591.74 P = 2337.9 RN/L = 4.8063

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4331	.3722	.4333	.3917	.3917	.3175	
.025	.3726	.3176	.4180	.3634	.3634	.2370	
.050	.3328	.2802	.3876	.3351	.3351	.2045	
.100	.3152	.2620	.3572	.3048	.3048	.1765	
.300	.1198	.0926	.2893	.2799	.2799	.1449	
.520	.2785	.0515	.1691	.1442	.1442	.0108	
.695	.2619	.1835	.1236	.1927	.1340	.1997	
.775	.2205	.0714	.0724	.0312	.0312	.2181	
.900		.0355	.1152	.1163	.1183	.2065	

ALPHA ( 3 ) = 3.918 BETA ( 4 ) = 4.207 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2567	.0853	.1230	.0781	.0781	.0974	
.025	.3546	.5445	.4200	.4275	.4275	.7105	
.050	.3242	.5128	.3815	.3978	.3978	.5740	
.100	.2358	.3695	.2969	.4316	.4316	.4059	
.300	.2435	.2204	.11490	.0446	.0446	.0188	
.520	.3224	.0147	.0599	.0951	.0951	.0472	
.695	.2643	.1191	.0874	.0782	.1184	.1902	
.775	.2320	.0139	.0159	.0331	.0217	.1994	
.900		.1150	.2034	.1178	.1947	.0983	.1904

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV05)

ALPHA ( 3 ) = 3.922 BETA ( 5 ) = 8.252 MACH = .59500 Q = 591.74 P = 2387.9 RN/L = 4.8063

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1571	-.5714	-.4796	-.4211	-.3330
.025	-.6631	-1.1445	-.7349	-.4624	-.3312
.050	-.6708	-.9294	-.7340	-.4614	-.3128
.150	-.8293	-1.0485	-.7166	-.4564	-.2885
.300	-.3932	-.4164	-.6935	-.4689	-.2739
.520	-.3942	-.1123	-.3660	-.3460	-.2600
.695	-.2922	-.0644	-.1490	-.3281	-.2394
.775	-.2705	-.0270	-.0379	-.2585	-.2340
.900	-.2705	-.1835	-.2463	-.1157	-.2450
				-.2348	-.2270

ALPHA ( 4 ) = 7.956 BETA ( 1 ) = -7.918 MACH = .59428

Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1084	-.4754	-.4632	-.2582	-.2221
.025	.3747	.3331	.4040	.3751	.3032
.050	.3253	.2977	.3722	.3581	.2955
.150	.1900	.1875	.2957	.2716	.1818
.300	.0911	.1073	.2561	.2065	.1066
.520	-.1337	.1841	.2644	.1996	.0062
.695	-.2560	.2855	-.1296	.2524	.1695
.775	-.2331	.1782	.1672	.1210	.0344
.900		-.0015	-.0616	-.0565	-.0478
				-.0517	-.1555

ALPHA ( 4 ) = 7.955 BETA ( 2 ) = -3.894 MACH = .59428

Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2519	.0801	.0821	.1528	.0818
.025	.1892	.1672	.2793	.2709	.2328
.050	.1693	.1538	.2448	.2551	.2086
.150	.0664	.0651	.1849	.1753	.1170
.300	-.0305	.0046	.1677	.1430	.0662
.520	-.2023	.1162	.2175	.1624	.0058
.695	-.2554	.2399	-.1263	.2151	.1529
.775	-.2177	.1266	.0729	.0695	.0126
.900		-.0395	-.1110	-.0967	-.0665
				-.1377	-.1378

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL (XEBV05)

ALPHA ( 4 ) = 7.970 BETA ( 3 ) = .145 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4591	.3305	.3844	.3412	.2584	
.025	-.0767	-.2835	-.1824	-.1087	-.2207	
.050	.0121	-.0554	.0049	.0338	-.0082	
.075	-.0562	-.0906	.0302	.0372	.0131	
.100	-.1348	-.0959	.0786	.0634	.0008	
.125	-.2717	.0605	.1591	.1227	-.0147	
.150	-.2484	.1840	.1756	.1126	-.1924	
.175	-.2008	.0715	.0225	.0189	-.0370	-.2156
.200		-.0831	-.1625	-.1593	-.1210	-.1742

ALPHA ( 4 ) = 7.969 BETA ( 4 ) = 4.201 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2379	.0303	.0642	-.1366	-.1661	
.025	-.2642	-.5639	-.4344	-.4402	-.6229	
.050	.0297	-.5591	-.3875	-.4095	-.5041	
.075	-.2951	-.3469	-.3399	-.4743	-.3867	
.100	-.2623	-.2295	-.1352	-.0267	-.0256	
.125	-.3124	-.0159	.0558	.0756	-.0516	
.150	.2379	.1262	.0501	.0538	.0919	-.2033
.175	-.2649	.0097	.0026	-.0499	-.0420	-.1828
.200		-.1502	-.2214	-.1805	-.1929	-.1996

ALPHA ( 4 ) = 7.967 BETA ( 5 ) = 8.254 MACH = .59428 Q = 590.57 P = 2388.9 RN/L = 4.8012

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2022	-.6257	.5556	-.4627	-.4052	
.025	-.7980	-.1193	-.7541	-.4690	-.3271	
.050	.7327	-.9391	-.7546	-.4593	-.3049	
.075	.8691	-.10557	-.7570	-.4498	-.3025	
.100	-.4044	-.4015	-.7269	-.4668	-.2830	
.125	.3333	-.1333	-.3566	-.3707	-.2973	
.150	-.2737	.0122	-.1858	-.3872	-.2571	
.175	-.2733	-.0390	-.0205	-.2933	-.3202	-.2520
.200		-.2091	-.0958	-.2144	-.2786	-.2444

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV05)

ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.881 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	-.1304	-.5437	-.5519	-.3416	-.3113	
.025	.3008	.3143	.3688	.3318	.2613	
.050	.2512	.2767	.3490	.3198	.2474	
.100	.1148	.1707	.2821	.2491	.1604	
.150	.0243	.1100	.2527	.1919	.0843	
.200	-.1421	.1927	.2460	.1738	-.0067	
.250	-.2374	.3117	.2304	.2261	.1382	
.300	-.2374	.2095	.1181	.0991	.0217	
.350	-.2374	.0291	-.0630	-.0536	-.1663	

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = -3.874 MACH = .59502

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.2735	.0419	.0250	.0846	.0161	
.025	.1600	.1607	.2637	.2527	.2074	
.050	.1693	.1362	.2360	.2283	.1813	
.100	.0403	.0556	.1745	.1625	.0973	
.150	.0587	.0034	.1582	.1249	.0479	
.200	-.2308	.1126	.2037	.1405	-.0050	
.250	-.2538	.2519	.1939	.1898	.1309	
.300	-.2055	.1506	.0619	.0491	.0029	
.350	-.0147	-.1026	-.1147	-.1077	-.0739	

ALPHA ( 5 ) = 12.028 BETA ( 3 ) = .150 MACH = .59502

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.3933	.3011	.3429	.2959	.2081	
.025	-.0725	-.3065	-.1796	-.1133	-.2044	
.050	.0017	-.0858	-.0057	.0314	-.0108	
.100	.0699	-.1028	.0198	.0169	.0004	
.150	.1490	-.1076	.0690	.0454	-.0081	
.200	-.2765	.0483	.1455	.1044	-.0272	
.250	-.2503	.1345	.1500	.1036	-.1850	
.300	-.2001	.0716	.0566	.0015	-.0382	
.350	-.0579	-.1594	-.1743	-.1206	-.1675	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV05)

AMES 11-073(0A148)--140A/B/C/R ORB VERTICAL

ALPHA ( 5 ) = 12.028 BETA ( 4 ) = 4.211 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2728	.0323	.0037	-.2003	-.2341
.025	-.3483	-.5534	-.4468	-.4593	-.5423
.050	-.3299	-.5792	-.4007	-.4326	-.4598
.075	-.2857	-.5331	-.3712	-.4763	-.3731
.100	-.2670	-.2299	-.1156	-.0260	-.0632
.125	-.3422	-.0201	.0524	.0488	-.0603
.150	-.2256	.1343	-.1214	.0304	.0442
.175	-.2236	.0153	-.0290	-.0704	-.0682
.200		-.1415	-.2282	-.1878	-.1979
					-.1363
					-.1660

ALPHA ( 5 ) = 12.020 BETA ( 5 ) = 8.278 MACH = .59502 Q = 591.86 P = 2388.2 RN/L = 4.8047

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2139	-.3994	-.6465	-.5429	-.4771
.025	-.0557	-.1154	-.7688	-.4928	-.3336
.050	-.3037	-.3751	-.7707	-.4582	-.3222
.075	-.2443	-.1086	-.7893	-.4622	-.3181
.100	-.0534	-.0178	-.7623	-.4967	-.3046
.125	-.0659	.1349	-.2780	-.382	-.3276
.150	-.0319	-.0209	-.0507	-.4095	-.2738
.175	-.0377	.1044	.0100	-.2732	-.3501
.200		-.1463	-.1126	-.1981	-.2576

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV06) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000  
BDFLAP = 22.500 L-ELVN = .000  
R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -7.883 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION 1 VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .0307 -.2420 -.1914 -.0425 -.0407  
.025 .4983 .4524 .5342 .5087 .4534  
.050 .4440 .4029 .4813 .4736 .4105  
.150 .2918 .2731 .3745 .3602 .2741  
.300 .1561 .1688 .3277 .2796 .1790  
.520 .1081 .1936 .3659 .2641 .0539  
.685 .2635 .2331 -.1556 .3256 .2292 .2278  
.775 .2552 .1816 .1944 .1668 .1523 .0600 .2293  
.900 -.0140 -.0513 -.0442 -.0469 -.0575 -.2083

ALPHA ( 2 ) = -4.010 BETA ( 2 ) = -3.877 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION 2 VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3768 .2509 .2792 .3772 .2932  
.025 .3304 .2631 .3655 .3629 .3190  
.050 .3073 .2558 .3295 .3402 .2944  
.150 .1771 .1458 .2536 .2517 .1919  
.300 .0527 .0623 .2341 .2107 .1197  
.520 .1809 .1307 .3204 .2322 .0206  
.685 .2716 .2595 .3517 .2911 .2064 .2398  
.775 .2730 .1384 .1254 .1196 .0253 .2567  
.900 -.0469 -.0730 -.0775 -.0823 -.0883 -.2538

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TABULATED PREJ. RE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV05)

ALPHA ( 1 ) = -3.994 BETA ( 3 ) = .154 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5114	.4745	.5422	.5078	.4476
.025	-.0091	-.2693	-.2010	-.0339	-.2283
.050	.1139	.0314	.0512	.0574	.0415
.075	.0377	-.0313	.0782	.0881	.0621
.100	-.0647	-.0932	.1228	.1187	.0517
.125	-.2542	.0326	.2624	.1876	.0178
.150	-.2782	.2005	.2989	.2478	.1785
.175	-.2441	.0750	.0948	.0729	.0048
.200		-.1035	-.1234	-.1294	-.1021
					-.2264

ALPHA ( 1 ) = -4.001 BETA ( 4 ) = 4.235 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7321	.2040	.2624	.1039	.1001
.025	-.0709	-.1377	-.4025	-.3553	-.7980
.050	.2330	-.4359	-.3174	-.3174	-.6603
.075	.0551	-.3295	-.2406	-.2449	-.2332
.100	-.1138	-.1879	-.0875	-.0929	-.0773
.125	.3176	-.0107	.0938	.0667	-.0311
.150	-.2133	.1245	.1341	.0752	-.2771
.175	-.3327	.0032	.0070	.0074	-.0463
.200		-.1659	-.1139	-.1821	-.1221
					-.2384

ALPHA ( 1 ) = -4.013 BETA ( 5 ) = 8.308 MACH = .59594 Q = 593.39 P = 2387.0 RN/L = 4.8396

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0279	.0011	.2155	-.3986	-.2570
.025	.5502	.0318	-.6315	-.5979	-.5200
.050	-.5504	.0307	-.6691	-.5859	-.4687
.075	.2133	-.0306	-.6124	-.5943	-.4185
.100	-.2308	.0315	.5393	.5408	.3665
.125	.3208	.0311	.5335	-.2917	-.3421
.150	-.3228	.0309	-.2319	-.2231	-.3110
.175	-.2772	.0295	-.2249	-.2112	-.3156
.200		-.1194	-.2727	-.2936	-.2485
					-.1813



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV06)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .023 BETA ( 1 ) = -7.929 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0205	-.2988	-.2794	-.1061	-.0944
.025	.4492	.4054	.4853	.4656	.3983
.050	.3938	.3587	.4411	.4349	.3636
.075	.2511	.2357	.3457	.3283	.2455
.100	.1187	.1422	.3085	.2591	.1558
.125	-.1359	.1782	.3116	.2455	.0583
.150	-.2705	.2257	.3402	.2933	.2150
.175	-.2537	.1839	.1707	.1371	.0634
.200		-.0237	-.0759	-.0552	-.1002

ALPHA ( 2 ) = .033 BETA ( 2 ) = -3.896 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3193	.1800	.2060	.2965	.2196
.025	.2229	.2270	.3281	.3324	.2901
.050	.2533	.2455	.2929	.3060	.2594
.075	.1326	.1075	.2243	.2253	.1638
.100	.0167	.0337	.2057	.1833	.0989
.125	-.2006	.1054	.2736	.2074	.0154
.150	-.2727	.2366	.3167	.1856	-.1946
.175	-.2404	.1239	.1067	.0952	-.2168
.200		-.0591	-.0983	-.0987	-.1977

ALPHA ( 2 ) = .035 BETA ( 3 ) = .147 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4671	.4154	.4859	.4469	.3780
.025	-.0462	-.2926	-.2157	-.0657	-.2335
.050	.0655	-.0332	.0243	.0418	.0211
.075	-.0033	-.0620	.0536	.0651	.0433
.100	-.0999	-.0804	.1012	.0940	.0286
.125	-.2705	.0325	.2153	.1640	.0100
.150	-.2747	.1843	.2574	.2131	-.2086
.175	-.2411	.0701	.0543	.0490	-.2205
.200		-.1059	-.1432	-.1419	-.2138

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV05)

ALPHA ( 2 ) = .050 BETA ( 4 ) = 4.214 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION: VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/8V

.000	.2990	.1534	.1897	.0212	-.0083
.025	-.3291	-.5354	-.4193	-.3814	-.7893
.050	-.2831	-.4907	-.3711	-.3463	-.6413
.100	-.2532	-.4267	-.2740	-.3092	-.3067
.150	-.2292	-.3237	-.1315	-.1372	-.0663
.200	-.2043	-.2097	.0665	.0696	-.0453
.250	-.1794	-.1093	.1103	.0994	-.2443
.300	-.1545	-.0232	.0212	-.0246	.2267
.350	-.1296	-.1909	-.1919	-.1012	.90

ALPHA ( 2 ) = .045 BETA ( 5 ) = 8.269 MACH = .59630 Q = 593.84 P = 2385.7 RN/L = 4.8179

SECTION: VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/8V

.000	.2990	.1534	.1897	.0212	-.0083
.025	-.3291	-.5354	-.4193	-.3814	-.7893
.050	-.2831	-.4907	-.3711	-.3463	-.6413
.100	-.2532	-.4267	-.2740	-.3092	-.3067
.150	-.2292	-.3237	-.1315	-.1372	-.0663
.200	-.2043	-.2097	.0665	.0696	-.0453
.250	-.1794	-.1093	.1103	.0994	-.2443
.300	-.1545	-.0232	.0212	-.0246	.2267
.350	-.1296	-.1909	-.1919	-.1012	.90

ALPHA ( 2 ) = .030 BETA ( 1 ) = -7.932 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8155

SECTION: VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/8V

.000	.2990	.1534	.1897	.0212	-.0083
.025	-.3291	-.5354	-.4193	-.3814	-.7893
.050	-.2831	-.4907	-.3711	-.3463	-.6413
.100	-.2532	-.4267	-.2740	-.3092	-.3067
.150	-.2292	-.3237	-.1315	-.1372	-.0663
.200	-.2043	-.2097	.0665	.0696	-.0453
.250	-.1794	-.1093	.1103	.0994	-.2443
.300	-.1545	-.0232	.0212	-.0246	.2267
.350	-.1296	-.1909	-.1919	-.1012	.90

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V05)

ALPHA ( 3 ) = 3.915 BETA ( 2 ) = -3.897 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION : INVERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/0V

.000	.2755	.1272	.1347	.2207	.1416
.025	.2397	.1957	.3038	.3045	.2589
.050	.2130	.1730	.2680	.2813	.2340
.075	.0970	.0835	.1968	.1949	.1399
.100	-.0120	.0123	.1925	.1613	.0787
.125	-.2079	.0395	.2436	.1851	.0204
.150	-.2788	.2352	.2897	.2319	.1736
.175	-.2322	.1143	.1211	.0934	.0212
.200		-.0557	-.1060	-.0920	-.0778
					-.1659

ALPHA ( 3 ) = 3.912 BETA ( 3 ) = .150 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION : INVERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/0V

.000	.4355	.3735	.4312	.3698	.3182
.025	-.0735	-.3120	-.1935	-.0987	-.2307
.050	.0294	-.0565	.0159	.0325	.0044
.075	-.0355	-.0795	.0440	.0438	.0257
.100	-.1211	-.1009	.0861	.0724	.0143
.125	-.2751	.0219	.1850	.1411	-.0173
.150	-.2751	.1917	.2276	.1852	.1361
.175	-.2269	.0512	.0621	.0332	-.0272
.200		-.1028	-.1578	-.1177	-.2039

ALPHA ( 3 ) = 3.921 BETA ( 4 ) = 4.204 MACH = .59594 Q = 593.13 P = 2385.8 RN/L = 4.8146

SECTION : INVERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/0V

.000	.2555	.0893	.1203	-.0411	-.0936
.025	-.3573	-.5534	-.4331	-.3705	-.7035
.050	-.3255	-.5227	-.3787	-.3465	-.5717
.075	-.3004	-.3592	-.3200	-.3674	-.4225
.100	-.2833	-.2809	-.1682	-.1525	-.0215
.125	-.3368	-.0472	.0650	.0729	-.0605
.150	-.2709	.1282	.1227	.0727	.1068
.175	-.2653	.0042	-.0058	-.0438	-.2105
.200		-.1542	-.2026	-.0319	-.2201

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V06)

ALPHA ( 3 ) = 3.925 BETA ( 5 ) = 8.248 MACH = .59594 Q = 593.13 P = 2385.8 RAV/L = 4.8146

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X'CV

.000	-.1550	-.5771	-.4857	-.4227	-.3496	
.025	-.5615	-.12015	-.7435	-.4821	-.3496	
.050	-.6735	-.9373	-.7455	-.4693	-.3290	
.075	-.8372	-.10581	-.7190	-.4683	-.2948	
.100	-.4011	-.4173	-.6965	-.4775	-.2863	
.125	-.4056	-.1622	-.3902	-.3672	-.2813	
.150	-.3539	-.0832	-.1515	-.3167	-.2544	
.175	-.3886	-.0336	-.0544	-.2739	-.2536	
.200	-.3816	-.1087	-.2603	-.2553	-.2548	-.2522

ALPHA ( 4 ) = 0.967 BETA ( 1 ) = -7.908 MACH = .59612 Q = 593.49 P = 2385.7 RAV/L = 4.8178

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X'CV

.000	-.1550	-.4484	-.4712	-.2531	-.2332	
.025	-.5011	-.3383	-.4031	-.3746	-.3017	
.050	-.3208	-.3378	-.3703	-.3606	-.2846	
.075	-.1944	-.1932	-.2973	-.2747	-.1807	
.100	-.1049	-.1071	-.2617	-.2120	-.1031	
.125	-.1172	-.1502	-.2633	-.1963	-.0122	
.150	-.2264	-.0881	-.2935	-.1593	-.1517	
.175	-.2478	-.0706	-.1569	-.1096	-.0330	-.1440
.200	-.2478	-.1069	-.0749	-.0513	-.0529	-.1464

ALPHA ( 5 ) = 0.988 BETA ( 2 ) = -3.891 MACH = .59612 Q = 593.49 P = 2385.7 RAV/L = 4.8178

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X'CV

.000	-.1550	-.0841	-.0756	-.1504	-.0782	
.025	-.5011	-.0526	-.2798	-.2676	-.2273	
.050	-.3208	-.1437	-.2433	-.2462	-.1977	
.075	-.1944	-.0686	-.1806	-.1749	-.1115	
.100	-.1049	-.0306	-.1675	-.1379	-.0518	
.125	-.1172	-.0349	-.2157	-.1575	-.0086	
.150	-.2264	-.0362	-.2540	-.1504	-.1689	
.175	-.2478	-.0341	-.0706	-.0631	-.0023	-.1889
.200	-.2478	-.0436	-.1065	-.11071	-.0845	-.1705

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV06)

ALPHA ( 4 ) = 7.972 BETA ( 3 ) = .143 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( INVERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4095	.3270	.3811	.3384	.2532	
.025	-.0768	-.3037		-.1731	-.1083	-.2094	
.050	.0150	-.0775		.0102	.0352	-.0179	
.150	-.0566	-.1042		.0224	.0326	.0053	
.300	-.1468	-.1109		.0718	.0525	-.0118	
.500	-.2930	.0273		.1587	.1156	-.0411	
.650	-.2628	.1823	-.1177	.2002	.1570	.1163	-.2111
.775	-.1237	.0667	.0550	.0157	.0135	-.0416	-.2234
.900		-.0358	-.1563	-.1722	-.1685	-.1329	-.2077

ALPHA ( 4 ) = 7.972 BETA ( 4 ) = 4.201 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( INVERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.2357	.0544	.0718	-.1071	-.1652	
.025	-.3645	-.5693		-.4344	-.3856	-.6072	
.050	-.3334	-.5692		-.3907	-.3614	-.4937	
.150	-.2842	-.3518		-.3333	-.4265	-.3653	
.300	-.2655	-.2337		-.1465	-.0893	-.0348	
.500	-.3470	-.0529		.0581	.0785	-.0568	
.650	-.2482	.1276	-.1229	.1407	.0514	.0994	-.2062
.775	-.2227	.0113	-.0107	.0130	-.0492	-.0439	-.2171
.900		-.1524	-.2226	-.1685	-.2005	-.1147	-.2152

ALPHA ( 4 ) = 7.959 BETA ( 5 ) = 8.255 MACH = .59612 Q = 593.49 P = 2385.7 RN/L = 4.8178

## SECTION ( INVERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	-.1971	-.6383	-.5436	-.4490	-.3973	
.025	-.7039	-1.1833		-.7389	-.4692	-.3176	
.050	-.7260	-.9712		-.7449	-.4615	-.3020	
.150	-.8436	-1.0450		-.7377	-.4474	-.2947	
.300	-.4043	-.3823		-.7343	-.4567	-.2769	
.500	-.3965	-.1692		-.3401	-.3720	-.2877	
.650	-.2701	.0306	-.1459	-.1251	-.3477	-.2489	
.775	-.2730	-.0575	-.0628	-.0169	-.2782	-.3298	-.2565
.900		-.1551	-.2590	-.0975	-.2146	-.2624	-.2522

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV06)

ALPHA ( 1 ) = 12.008 BETA ( 1 ) = -7.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8553

SECTION 1 VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	-.1249	-.5693	-.5527	-.3447	-.3095	
.025	.3390	.3129	.3640	.3365	.2555	
.050	.2828	.2761	.3470	.3205	.2472	
.075	.2178	.1574	.2844	.2441	.1579	
.100	.1512	.1009	.2467	.1899	.0917	
.125	.0823	.0397	.2455	.1743	-.0101	
.150	.0122	-.1223	.2697	.2135	.1370	
.175	-.0543	-.1544	.1073	.0362	-.1833	
.200	-.1243	-.0637	-.0691	.0158	-.1879	
.225				-.0731	-.1750	

SECTION 2 VERTICAL

ALPHA ( 2 ) = 12.030 BETA ( 2 ) = -3.872 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8553

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV

.1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2739	.0171	.0181	.0945	.0092	
.025	.1894	.0149	.2662	.2502	.2020	
.050	.1044	.0139	.2309	.3276	.1779	
.075	.0194	.0130	.1775	.1543	.0887	
.100	-.0656	.0086	.1210	.1204	.0325	
.125	-.1503	.0050	.2043	.1358	-.0222	
.150	-.2349	.0014	.2402	.1189	-.1878	
.175	-.3194	-.0022	.0590	.0510	-.1965	
.200	-.4039	-.0034	-.1195	-.1139	-.1861	

SECTION 4 VERTICAL

ALPHA ( 3 ) = 12.058 BETA ( 3 ) = .140 MACH = .47710 Q = 475.06 P = 1908.1 RN/L = 3.8553

SECTION 5 VERTICAL

DEPENDENT VARIABLE CP

Z/BV

.1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3420	.0254	.3442	.2344	.2011	
.025	.2572	.0126	.1696	-.1279	-.2141	
.050	.1724	.0000	-.0078	.0305	-.0141	
.075	.0876	-.0124	.0169	.0136	-.0042	
.100	.0028	-.0244	.0341	.0385	-.0117	
.125	-.0820	-.0360	.0497	.0348	-.0324	
.150	-.1672	-.0476	.0633	.1351	-.0513	
.175	-.2524	-.0592	.0787	.0030	-.2023	
.200	-.3376	-.0708	.0934	-.0481	-.2088	
.225	-.4228	-.0824	.1081	-.1261	-.2020	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.949 BETA ( 4 ) = 4.211 MACH = .47710 Q = .475.06 P = 1908.1 RN/L = 3.8563  
 AMES 11-073(0A148) -140A/B/C/A ORB VERTICAL (XEBV06)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 .2676 .0201 .0074 .1701 -.2365  
 .025 -.3568 -.5832 -.4515 -.4285 -.5501  
 .050 -.3196 -.5880 -.4155 -.4002 -.4694  
 .150 -.2850 -.3531 -.3851 -.5064 -.3402  
 .300 -.2806 -.2406 -.1337 -.0375 -.0757  
 .520 -.3500 -.0510 .0513 .0587 -.0895  
 .685 -.2547 .1271 -.1269 .1300 .0167 .0634 .2283  
 .775 -.2401 .0117 -.0242 -.0360 -.0833 -.0652 -.2172  
 .900 -.1518 -.2269 -.1970 -.2140 -.1456 -.2269

ALPHA ( 5 ) = 12.025 BETA ( 5 ) = 8.275 MACH = .47710 Q = .475.06 P = 1908.1 RN/L = 3.8563

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 -.2833 -.6796 -.6439 .5389 -.4756  
 .025 -.7696 -1.1581 -.7725 -.5080 -.3226  
 .050 -.7909 -.9756 -.7752 -.4761 -.3074  
 .150 -.5434 -1.0813 -.7756 -.4802 -.3045  
 .300 -.4950 -.4297 -.7962 -.5073 -.3163  
 .520 -.5038 -.1731 -.2871 -.3861 -.3293  
 .685 -.3917 -.0280 -.1463 -.3988 -.2737  
 .775 -.3548 -.1057 -.0872 -.2799 -.3619 -.2640  
 .900 -.2712 -.1091 -.1968 -.2814 -.2582

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV07) ( 13 AUG 75 )

## REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0580 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 22.500 -ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.068 BETA ( 1 ) = -3.876 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5033 .3632 .4040 .4877 .4299  
 .025 .3791 .2548 .3835 .4236 .3634  
 .050 .3575 .2519 .3564 .4064 .3486  
 .150 .2174 .1670 .3032 .3254 .2545  
 .300 .0804 .0787 .2973 .2889 .1870  
 .520 -.1254 .1234 .3904 .3175 .0912  
 .685 -.2612 .3447 -.1820 .3969 .2788 -.3284  
 .775 -.2276 .2162 .2815 .2653 .2289 .0453 -.3324  
 .900 .0961 .1082 .0833 .0306 -.1448 -.3418

ALPHA ( 1 ) = -4.048 BETA ( 2 ) = .153 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5834

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5745 .4742 .5680 .5680 .4778  
 .025 .0582 -.2397 -.1992 -.0403 -.1345  
 .050 .1743 .0160 .0806 .1199 .0646  
 .150 .0676 -.0346 .1137 .1642 .1384  
 .300 -.0624 -.0726 .1937 .2049 .1236  
 .520 -.2292 .0433 .3493 .2746 .0810  
 .685 -.2577 .2335 -.1919 .3519 .2534 -.3461  
 .775 -.2209 .1841 .2316 .1951 .0182 -.3286  
 .900 .0374 .0618 .0449 -.0024 -.1675 -.3444



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AMES 11-073(CA148) -140A/B/C/R OR8 VERTICAL (XE8V07)

ALPHA ( 1 ) = -4.057 BETA ( 3 ) = 4.237 MACH = .89933 Q = 599.81 P = 1059.5 RN/L = 3.5934

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4862	.3481	.3481	.3481	.3009	.2258	
.025	-.1786	-.6712	-.5956	-.5956	-.1970	-.1623	
.050	-.1061	-.6053	-.5794	-.5794	-.1851	-.1482	
.150	-.1457	-.3172	-.5169	-.5169	-.1961	-.1331	
.300	-.2394	-.3144	-.2905	-.2905	-.2113	-.1616	
.520	-.3701	-.0489	.2664	.2664	-.1079	-.3115	
.685	-.3981	.2299	-.2059	.4113	.1453	-.1137	-.3371
.775	-.2225	.0941	.1810	.2230	.2137	-.0947	-.3565
.900		-.0394	.0183	.0389	.0556	-.1209	-.3845

ALPHA ( 2 ) = .010 BETA ( 1 ) = -3.903 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4423	.2829	.3144	.3144	.4114	.3543	
.025	.3016	.1988	.3532	.3532	.3962	.3397	
.050	.2892	.1917	.3301	.3301	.3734	.3166	
.150	.1499	.1051	.2766	.2766	.3016	.2258	
.300	.0298	.0370	.2738	.2738	.2643	.1571	
.520	-.1624	.1001	.3587	.3587	.2835	.0630	
.685	-.2607	.3298	-.1743	.4048	.3620	-.2432	-.2989
.775	-.2319	.2069	.2556	.2350	.1999	.0165	-.3171
.900		.0856	.0864	.0617	.0044	-.1623	-.3245

ALPHA ( 2 ) = .014 BETA ( 2 ) = .148 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5880

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5271	.3921	.5079	.5079	.5089	.4031	
.025	-.0057	-.2894	-.2061	-.2061	-.0590	-.1412	
.050	.1133	-.0542	.0437	.0437	.0782	.0549	
.150	.0078	-.0920	.0836	.0836	.1376	.1088	
.300	-.1330	-.1124	.1656	.1656	.1718	.0971	
.520	-.2623	.0297	.3132	.3132	.2412	.0539	
.685	-.2913	.2798	-.1726	.3558	.3161	.2232	-.3162
.775	-.2182	.1450	.2103	.1961	.1640	-.0012	-.3248
.900		.0257	.0456	.0232	-.0298	-.1891	-.3437

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL

(XEBV07)

ALPHA ( 2 ) = .013 BETA ( 3 ) = 4.211 MACH = .90060 Q = 601.03 P = 1058.5 RN/L = 3.5980

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4343	.2793	.2550	.2165	.1369
.025	-.2583	-.7255	-.6411	-.2142	-.1728
.050	-.1756	-.6483	-.6092	-.2058	-.1587
.100	-.1856	-.3610	-.5395	-.2132	-.1454
.200	-.2919	-.3782	-.3112	-.2232	-.1759
.300	-.4441	-.0362	.2617	-.1209	-.3216
.400	-.3323	.2214	.3680	.2122	.1439
.500	-.2345	.0875	.1594	.2239	.1090
.600	-.0333	-.0007	.0082	.0324	-.1401
.700					-.3569

ALPHA ( 3 ) = 3.998 BETA ( 1 ) = -3.905 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3917	.2319	.2300	.3276	.2736
.025	.2451	.1442	.3352	.3630	.3058
.050	.2394	.1499	.3023	.3402	.2846
.100	.1156	.0593	.2526	.2688	.1889
.200	-.0115	.0094	.2478	.2271	.1239
.300	-.1775	.0917	.3268	.2454	.0338
.400	-.2240	.3308	.3690	.2122	-.2674
.500	-.2290	.2027	.2464	.1664	.0000
.600		.0888	.0776	.0333	-.0255
.700					-.1728
.800					-.2892

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = .135 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4951	.3504	.4473	.4485	.3402
.025	-.0729	-.3274	-.1937	-.0635	-.1347
.050	.0632	-.0953	.0326	.1025	.0346
.100	-.0461	-.1214	.0673	.1155	.0840
.200	-.1657	-.1335	.1469	.1483	.0704
.300	-.2778	.0225	.2739	.2098	.0268
.400	-.2793	.2824	.3176	.2801	.1819
.500	-.2167	.1256	.1809	.1322	-.0292
.600		.0255	.0180	-.0531	-.1999
.700					-.3203

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V07)

ALPHA ( 3 ) = 3.920 BETA ( 3 ) = 4.206 MACH = .90070 Q = 600.82 P = 1058.0 RN/L = 3.5882

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3736	.2252	.1668	.1475	.0562
.025	-.2891	-.7499	-.5863	-.2213	-.1891
.050	-.2056	-.7157	-.5590	-.2192	-.1745
.100	-.2063	-.4437	-.5601	-.2256	-.1613
.150	-.3540	-.4132	-.3425	-.2454	-.1977
.200	-.4998	-.0245	.2346	-.1373	-.3236
.250	-.2939	.2204	.3273	.1756	-.1644
.300	-.2501	.0842	.1303	.1849	-.1349
.350	-.0361	-.0229	-.0223	.0065	-.1451
.400					-.3346

ALPHA ( 4 ) = 7.945 BETA ( 1 ) = -3.900 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3407	.1594	.1643	.2504	.1909
.025	.1508	.1089	.2902	.3325	.2752
.050	.1865	.1094	.2633	.3110	.2493
.100	.0403	.0299	.2249	.2430	.1616
.150	-.0628	-.0278	.2344	.2020	.0902
.200	-.2107	.0706	.3041	.2149	.0100
.250	-.2910	.3307	.1654	.2838	.1716
.300	-.2324	.2076	.2358	.1402	-.2751
.350		.1004	.0726	-.0497	-.2931
.400			.0150	-.1977	-.2991

ALPHA ( 4 ) = 7.956 BETA ( 2 ) = .143 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4601	.2657	.3908	.3872	.2675
.025	-.1142	-.3434	-.1859	-.0630	-.1278
.050	.0356	-.1173	.0210	.1224	.0217
.100	-.0768	-.1623	.0467	.0978	.0531
.150	-.1986	-.1697	.1269	.1178	.0359
.200	-.3153	.0022	.2500	.1672	-.0157
.250	-.2835	-.1704	.2309	.1394	-.2950
.300	-.2395	.1471	.1379	.0990	-.3192
.350		.0365	-.0203	-.0638	-.2349
.400			-.0275		-.3317

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 4 ) = 7.955 BETA ( 3 ) = 4.206 MACH = .89867 Q = 599.20 P = 1059.9 RN/L = 3.5837  
(XEBV07)

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .3287 .1621 .1114 .0682 -.0280  
.025 -.2495 -.7604 -.5714 -.2433 -.2097  
.050 -.2019 -.6955 -.5540 -.2390 -.1929  
.150 -.1991 -.4507 -.5425 -.2421 -.1814  
.300 -.3373 -.3968 -.3001 -.2660 -.2299  
.520 -.4805 -.0531 .1984 -.1386 -.3472  
.685 -.3209 .1874 -.1796 .2723 .2058 -.1608 -.3110  
.775 -.2669 .0552 .1152 .1191 .1475 -.1183 -.3230  
.900 -.0398 -.0369 -.0451 -.0501 -.1416 -.3220

ALPHA ( 5 ) = 11.987 BETA ( 1 ) = -3.885 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .3554 .1387 .1020 .1643 .1056  
.025 .0030 -.0231 .2526 .3088 .2515  
.050 .0451 .0141 .2324 .2871 .2218  
.150 -.0584 -.0473 .1986 .2219 .1341  
.300 -.1696 -.0774 .2131 .1788 .0669  
.520 -.2746 .0481 .2962 .1896 -.0199  
.685 -.3326 .3252 .2541 .1417 .2901  
.775 -.2563 .2180 .1208 -.0454 .3117  
.900 .1092 .0001 -.0639 -.2208 -.3095

ALPHA ( 5 ) = 11.297 BETA ( 2 ) = .148 MACH = .89347 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION 1: VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .3911 .2316 .3473 .3450 .2349  
.025 -.0408 -.3450 -.2328 -.0675 -.1387  
.050 .0336 .1859 -.0303 .1005 .0082  
.150 -.0753 .2166 .0233 .0741 .0331  
.300 -.2435 .2280 .1015 .1003 .0244  
.520 .3483 .0239 .2327 .1536 -.0327  
.685 .3045 .2160 .2759 .2170 .1235 .3109  
.775 .1576 .1184 .1258 .0845 -.0567 .3250  
.900 .1654 .0147 .0413 -.0941 -.2410 .3315

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV07)

ALPHA ( 5 ) = 11.987 BETA ( 3 ) = 4.223 MACH = .89947 Q = 599.98 P = 1059.5 RN/L = 3.5879

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/8V							
.000	.3537	.1436		.0407		-.0400	-.1445
.025	-.1171	-.6224		-.7476		-.3235	-.2725
.050	-.0310	-.5019		-.7340		-.3337	-.2528
.100	-.1366	-.3934		-.5576		-.3322	-.2380
.150	-.3229	-.4137		-.1410		-.3251	-.2945
.200	-.4973	-.1327		.1352		-.0926	-.3899
.250	-.3846	.1195	-.2211	.2128	.1736	-.0436	-.3197
.300	-.2797	.0106	.0707	.0614	.0755	-.0398	-.3327
.350		-.0824	-.0812	-.0892	-.0988	-.1373	-.3228

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV08) ( 13 AUG 75 )

## REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.017 BETA ( 1 ) = -3.884 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9168  
 ALPHA ( 2 ) = -3.986 BETA ( 2 ) = .155 MACH = 1.3953 Q = 598.61 P = 439.24 RN/L = 2.9168

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 85.000  
 BDEFAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7806	.6682	.6445	.7618	.7266	.8101	.7772
.000	.6068	.5185	.4754	.7965	.7573	.7652	.7029
.025	.6260	.5168	.4950	.6116	.7652	.7652	.6722
.050	.5258	.4193	.7422	.9221	.8075	.7555	.5478
.075	.3824	.3290	.8745	.8803	.7555	.7555	.3113
.100	.2160	2.0119	.8745	.8335	.7612	.6396	.3691
.125	.1309	.9307	.7185	.6235	.6235	.4224	.4865
.150	.1649	.8453	.6770	.6770	.6770	.6770	.6770

## SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.8299	.7391	.7001	.8491	.7766	.4912	.4790
.000	.2722	.1445	.0288	.5907	.5514	.6657	.6362
.025	.4530	.3445	.2263	.6657	.6362	.7264	.6513
.050	.4268	.2731	.6648	.8100	.7608	.7272	.4838
.075	.2962	.2030	.8100	.8245	.7272	.7272	.2695
.100	.1225	1.0172	.8742	.7835	.6344	.6344	.3419
.125	.1351	.7575	.8627	.6203	.6203	.6203	.4653
.150	.2424	.7663	.6954	.6715	.6715	.6715	.6715

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV08)  
RV/L = 2.9166

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = -4.012 BETA ( 3 ) = 4.241 MACH = 1.3953 Q = 598.61 P = 439.24 RV/L = 2.9166

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7631	.6640		.6154		.5746	.5315
.025	.0910	-.0757		-.2681		.3813	.4637
.050	.1113	-.0858		-.2813		.3863	.4766
.100	.2154	.0277		-.0931		.3904	.4747
.200	.2048	.0833		.3109		.2765	.4189
.300	.0430	.15199		.7494		.3713	-.0074
.400	-.3919	.7105	-.1754	.8707	.8399	.3802	-.2230
.500	-.3277	.6618	.7526	.7723	.7824	.5285	-.4430
.600		.5784	.6411	.6147	.6343	.5984	-.4950

ALPHA ( 2 ) = -.007 BETA ( 1 ) = -3.899 MACH = 1.3961 Q = 598.93 P = 439.00 RV/L = 2.9179

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7185	.5859		.5673		.6676	.6473
.025	.5234	.4359		.3959		.7282	.7133
.050	.5448	.4411		.3804		.7208	.6958
.100	.4474	.3399		.4276		.7007	.6468
.200	.3041	.2532		.6719		.7060	.6221
.300	.1477	.14559		.8516		.7490	.4855
.400	-.3544	.9905	-.1748	.8736	.8182	.7017	-.3158
.500	-.2472	.7700	.8218	.7853	.7282	.6040	-.3977
.600		.6721	.6708	.6303	.5771	.3976	-.5056

ALPHA ( 2 ) = -.001 BETA ( 2 ) = .155 MACH = 1.3961 Q = 598.93 P = 439.00 RV/L = 2.9179

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7551	.6655		.6198		.7572	.7017
.025	.2051	.0908		-.0235		.4336	.4326
.050	.3892	.2910		.0077		.5157	.5149
.100	.3692	.2092		.1587		.6102	.5901
.200	.2207	.1432		.5735		.6637	.6040
.300	.0632	.13171		.7100		.6904	.4199
.400	-.3354	.7146	-.1709	.7835	.7448	.6521	-.2838
.500	-.3183	.6943	.7941	.7892	.7374	.5833	-.3506
.600		.5357	.5484	.6284	.5847	.3907	-.4847

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV08)

ALPHA ( 2 ) = -.006 BETA ( 3 ) = 4.218 MACH = 1.3961 Q = 599.93 P = 439.00 RN/L = 2.9179

SECTION ( 1 ) VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.6875	.5906	.5327	.4451	.4056
.025	-.0332	-.1420	-.3932	.2280	.3819
.050	.0423	-.1401	-.3927	.2354	.3929
.100	.1353	-.0308	-.0728	.1789	.3584
.150	.1465	.0433	.1858	-.0060	.1598
.200	-.0054	1.1733	.6422	.6572	.1469
.250	-.0255	.6711	.7147	.6334	-.2438
.300	-.3253	.57-2	.6991	.6035	-.3656
.350	-.3253	.4533	.5881	.5529	.4355
.400					.4544

ALPHA ( 3 ) = 3.849 BETA ( 1 ) = -3.909 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( 1 ) VERTICAL

Z/8V .1550 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.6206	.5240	.4938	.5640	.5559
.025	.3706	.3622	.3042	.6433	.6434
.050	.4189	.3673	.3035	.6368	.6254
.100	.3430	.2597	.2820	.6265	.5789
.150	.2328	.1983	.6282	.6473	.5643
.200	.0593	.1006	.7650	.6767	.4191
.250	-.4143	.8165	.7928	.7400	.6377
.300	-.0255	.8360	.7643	.6688	.5500
.350	-.0255	.6193	.5771	.5265	.3616
.400					.5251

ALPHA ( 3 ) = 3.957 BETA ( 2 ) = -.154 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( 1 ) VERTICAL

Z/8V .1520 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.6658	.5255	.5298	.6456	.6116
.025	.1510	.0255	-.0547	.3846	.3755
.050	.3209	.0537	-.0452	.4372	.4440
.100	.3206	.1634	.1024	.5202	.5297
.150	.1549	.0829	.4629	.6148	.5386
.200	.0147	.9540	.6143	.6088	.3525
.250	-.0545	.5140	.6559	.5490	-.2893
.300	-.0545	.5140	.6776	.5148	-.3765
.350	-.0545	.5140	.5759	.3502	-.5012
.400					



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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV08)

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.208 MACH = 1.3959 Q = 599.13 P = 439.24 RN/L = 2.9206

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

2-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.5923	.5363	.4541	.3759	.3222	
.025	-1.125	-1.170	-1.3948	.1694	.3050	
.050	-.0211	-1.1436	-.4010	.1775	.3213	
.075	.1045	-.0385	-.1397	.1303	.3024	
.100	.0970	-.0177	.0795	-.0423	.1652	
.125	-.0761	.8430	.5594	.5717	.1033	
.150	-.3391	.5332	.6020	.5428	-.2574	
.175	-.3559	.4732	.6118	.5236	-.3923	
.200		.4132	.5145	.5145	.3907	-.4756

ALPHA ( 1 ) = 7.869 BETA ( 1 ) = -3.901 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

2-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.5930	.4844	.4258	.4575	.4673	
.025	.2454	.2824	.2314	.5523	.5690	
.050	.3941	.3000	.2326	.5513	.5549	
.075	.2773	.2088	.1926	.5506	.5084	
.100	.1463	.1215	.5553	.5792	.5017	
.125	.0345	.7589	.6912	.6081	.3596	
.150	-.4249	.7583	.6912	.5607	-.3471	
.175	-.13407	.6470	.6859	.6057	.4878	-.4292
.200		.5786	.5191	.4723	.3223	-.5386

ALPHA ( 2 ) = 7.941 BETA ( 2 ) = .144 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

2-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.5903	.5234	.4410	.4758	.5433	
.025	.1826	.0255	-.0898	.3004	.3351	
.050	.3346	.2003	-.0850	.3305	.3966	
.075	.2918	.1400	.0544	.4901	.4638	
.100	.1103	.1322	.3367	.5469	.4681	
.125	-.0421	.6341	.5209	.5276	.2787	
.150	-.4359	.5925	.6078	.4625	-.2494	
.175	-.13481	.5170	.6431	.4569	-.3915	
.200		.4501	.5159	.4801	.3320	-.5046

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TABULATED PRESSURE DATA - 0A148 (ANES 11-073-1)

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ANES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV08)

ALPHA ( 4 ) = 7.942 BETA ( 3 ) = 4.207 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9176

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5545	.5030	.3799	.2925	.2608
.025	.0842	-.1624	-.3744	.0748	.2318
.050	.1397	-.1334	-.3973	.0782	.2483
.150	.2251	-.0134	-.1686	-.0142	.2261
.300	.0413	-.0625	-.0259	-.0120	.0686
.500	-.1119	.5987	.4708	.5126	.1376
.695	-.4420	.4854	.5551	.4941	-.2929
.775	-.13708	.3921	.5902	.4713	-.4087
.900		.3339	.4844	.4568	-.5013

ALPHA ( 5 ) = 11.993 BETA ( 1 ) = -3.888 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5429	.4487	.3490	.3661	.3800
.025	.2372	.2576	.1739	.4826	.5049
.050	.4022	.3375	.1795	.4800	.4920
.150	.2544	.1836	.1239	.4890	.4458
.300	.0769	.0542	.2681	.5181	.4384
.500	-.0406	.5380	.6095	.5382	.2989
.695	-.44351	.7609	.5839	.4885	-.3177
.775	-.13510	.6318	.6753	.5558	-.4534
.900		.5561	.4795	.4232	-.5472

ALPHA ( 6 ) = 11.897 BETA ( 2 ) = .146 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6745	.4745	.3679	.3330	.4713
.025	.1616	-.0027	-.1196	.1371	.2892
.050	.3207	.1654	-.1298	.1417	.3504
.150	.2769	.0749	-.0068	.4239	.3789
.300	.0902	-.0058	.2149	.4705	.4230
.500	-.0946	.4332	.4356	.4490	.2035
.695	-.4571	.5477	.5282	.3917	-.2407
.775	-.13739	.4493	.5722	.5618	-.4080
.900		.3342	.4576	.3002	-.5243

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV08)

ALPHA ( 5 ) = 11.893 BETA ( 3 ) = 4.224 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9183

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.020	.6222	.4636		.3046		.2030	.2062
.025	.1046	-.1606		-.3950		-.0087	.1692
.050	.1572	-.1487		-.4143		-.0034	.1812
.150	.2173	-.0407		-.2058		-.1054	.1556
.300	.0391	-.0255		-.1049		-.0194	-.0441
.520	-.1527	.4186		.3953		.4556	.1230
.695	-.4424	.4229	-.1961	.4706	.5007	.4411	-.2581
.775	-.3569	.3302	.4751	.4955	.5122	.4269	-.4357
.900		.2737	.4006	.4130	.3817	.3166	-.5255

ALPHA ( 6 ) = 15.905 BETA ( 1 ) = -3.863 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9185

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.020	.7621	.5090		.3249		.3053	.3153
.025	-.1398	.1349		.1366		.4293	.4587
.050	-.0409	.2549		.1385		.4276	.4441
.150	.2215	.1044		.0793		.4453	.4053
.300	-.0339	-.0220		.1672		.4771	.4020
.520	-.1051	.3545		.5665		.4972	.2624
.695	-.4368	.5565	-.2113	.6542	.5576	.4487	-.3470
.775	-.3009	.6995	.7045	.6065	.5242	.4014	-.4637
.900		.5951	.5586	.4537	.3947	.2628	-.5681

ALPHA ( 5 ) = 15.918 BETA ( 2 ) = .144 MACH = 1.3948 Q = 599.11 P = 439.94 RN/L = 2.9186

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.020	.5941	.4945		.3275		.2579	.4167
.025	.1227	-.0305		-.1547		.0300	.2613
.050	.3051	.1442		-.1599		.0491	.2945
.150	.2709	.0540		-.0307		.3652	.3038
.300	.0666	-.0393		.1373		.4145	.3761
.520	-.1218	.3271		.3954		.3930	.1297
.695	-.4457	.5455	-.1926	.4805	.4431	.3356	-.2236
.775	-.3054	.4429	.5604	.5625	.5272	.3754	-.4274
.900		.3407	.4455	.4204	.3833	.2737	-.5374

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TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( DEG ) = 15.308 BETA ( 3 ) = 4.250 MACH = 1.3948 Q = 599.11 P = 439.94 RAY/L = 2.9186  
(XEBV08)

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/RY	.1580	.3170	.4590	.6020	.6970	.8390	.9250
100	.7501	.5246		.2777	.1502	.1647	
105	.1218	-.1695		-.3922	-.0749	.1288	
110	.2436	-.1281		-.4090	-.0642	.1389	
115	.2793	-.1012		-.2258	-.1735	.1082	
120	.0960	-.0956		-.1346	.0086	-.1442	
125	-.1149	-.2078		.1283	.4057	.1360	
130	-.4712	-.4034		.4034	.3867	-.2599	
135	-.3353	.4445		.4553	.4702	-.4350	
140		.3510		.3247	.3532	.2792	-.5167

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV09) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.5800 IN. XC  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 85.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.882 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7625	.6257	.6479	.5957	.7359	.6882	
.000	.5942	.4570	.6059	.7438	.7591	.7126	
.025	.5965	.4578	.6303	.7056	.7056	.6946	
.050	.150	.4802	.7083	.6987	.5982	.6350	
.100	.3249	.2806	.8704	.7440	.4639		
.150	.1591	.1236	.8952	.6907	.3576		
.200	.3697	.9027	.8251	.7075	.5498		
.250	.775	.7893	.8086	.7676	.5070		
.300	.0546	.6397	.5954	.5377	.3191		
.350							
.400							
.450							
.500							
.550							
.600							
.650							
.700							
.750							
.800							
.850							
.900							

ALPHA ( 1 ) = -4.017 BETA ( 2 ) = .155 MACH = 1.2460

Q = 599.62 P = 551.80 RN/L = 3.0276

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.8141	.6899	.6677	.8189	.7353		
.000	.2778	.0831	.0142	.4383	.4041		
.025	.4362	.2943	.0348	.5239	.4678		
.050	.3755	.2112	.4955	.6040	.5671		
.100	.2174	.1426	.6374	.6589	.5757		
.150	.0572	.1288	.7977	.7123	.4094		
.200	.520	.7739	.8387	.7927	.3354		
.250	.4448	.7370	.8040	.7092	.4904		
.300	.775	.5941	.6179	.5318	.4904		
.350							
.400							
.450							
.500							
.550							
.600							
.650							
.700							
.750							
.800							
.850							
.900							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV09)

ALPHA ( 1 ) = -.4.025 BETA ( 3 ) = 4.236 MACH = 1.2460 Q = 599.62 P = 551.80 RN/L = 3.0276

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7468	.6164	.6049	.5594	.5067
.025	.0684	-.1685	-.3132	.3257	.3911
.050	.0987	-.1604	-.3008	.3274	.3987
.150	.1985	-.0032	-.0854	.3312	.3971
.300	.1392	.0205	.3567	.2899	.3334
.520	-.0293	.1122	.7294	.3340	-.0846
.685	-.4968	.6062	-.1954	.8170	.7645
.775	-.1997	.6338	.6984	.7251	.7166
.900		.5121	.5642	.5608	.5527

ALPHA ( 2 ) = .013 BETA ( 1 ) = -3.903 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6956	.5511	.5343	.6488	.6068
.025	.5136	.3849	.4091	.6926	.6506
.050	.5243	.3878	.4389	.6798	.6334
.150	.4116	.2857	.5259	.6452	.5781
.300	.2562	.1978	.6321	.6418	.5434
.520	.0860	.1250	.8045	.6826	.4146
.685	-.4546	.8477	-.1787	.8293	.7625
.775	-.1515	.7420	.7575	.6559	.5074
.900		.6070	.5932	.4918	.2821

ALPHA ( 2 ) = .017 BETA ( 2 ) = .152 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7559	.6178	.5782	.7380	.6484
.025	.2056	.0172	-.0946	.3840	.3597
.050	.3768	.2290	-.0495	.4980	.4320
.150	.3194	.1434	.3189	.5484	.5124
.300	.1568	.0798	.5613	.6049	.5256
.520	-.0067	.1184	.7075	.6474	.3528
.685	-.5048	.6592	.7650	.6076	-.3333
.775	-.2242	.6664	.7522	.6612	-.5073
.900		.5387	.5762	.4895	-.5863

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ALPHA ( 2 ) = .013 BETA ( 3 ) = 4.217 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0283  
 AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XE8V09)

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6772	.5486		.4999		.4646	.4127
.025	-.0278	-.2078		-.3536		.2587	.3365
.050	.0095	-.2093		-.3657		.2633	.3478
.150	.1338	-.0762		-.1849		.2709	.3476
.300	.0865	-.0234		.3122		.1834	.2824
.520	-.0932	.1025		.6444		.3300	-.1265
.685	-.5339	.6120	-.1769	.7451	.7210	.3308	-.3829
.775	-.3060	.5784	.6462	.6499	.6520	.4835	-.5776
.900		.4771	.5274	.4927	.4946	.4551	-.6283

ALPHA ( 3 ) = 3.907 BETA ( 1 ) = -3.907 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6267	.4913		.4436		.5523	.5226
.025	.3649	.2926		.2500		.6134	.5874
.050	.4179	.3115		.2574		.6031	.5676
.150	.3206	.2152		.3523		.5805	.5168
.300	.1875	.1276		.5530		.5805	.4683
.520	.0264	.1036		.7306		.6188	.3517
.685	-.5284	.7780	-.1924	.7535	.6942	.5696	-.3650
.775	-.2174	.6765	.7006	.6522	.5988	.4630	-.5534
.900		.5617	.5426	.4992	.4410	.2505	-.6146

ALPHA ( 3 ) = 3.907 BETA ( 2 ) = .148 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7104	.5561		.4974		.6519	.5715
.025	.1674	-.0154		-.1386		.3268	.3177
.050	.3361	.1842		-.1064		.4440	.3953
.150	.2742	.0917		.0392		.4946	.4640
.300	.1038	.0151		.4860		.5478	.4760
.520	-.0583	.1053		.6173		.5738	.2943
.685	-.5322	.6035	-.1925	.6853	.6375	.5350	-.3260
.775	-.2786	.6014	.6848	.6681	.6111	.4498	-.4775
.900		.4934	.5240	.4972	.4483	.2450	-.5357

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(XEBV09)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 3 ) = 3.911 BETA ( 3 ) = 4.207 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0276

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000 .6105 .4933 .4093 .3787 .3211  
 .025 -.0695 -.2459 -.4316 -.2047 .2861  
 .050 .0190 -.2276 -.4149 .2073 .2993  
 .100 .1080 .1093 .2917 .2006 .2905  
 .200 .0357 -.0688 .2008 .0079 .2164  
 .300 .1586 .0815 .5738 .4377 .1286  
 .400 .1586 .0815 .5738 .4377 .1286  
 .500 .1586 .0815 .5738 .4377 .1286  
 .600 .1586 .0815 .5738 .4377 .1286  
 .700 .1586 .0815 .5738 .4377 .1286  
 .800 .1586 .0815 .5738 .4377 .1286  
 .900 .1586 .0815 .5738 .4377 .1286

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.903 MACH = 1.2463

RN/L = 3.0282

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000 .6429 .4515 .3677 .4484 .4290  
 .025 .3305 .2369 .1770 .5379 .5212  
 .050 .3784 .2543 .1801 .5282 .5040  
 .100 .2661 .1556 .2367 .5117 .4554  
 .200 .1091 .0595 .4895 .5239 .4319  
 .300 .0225 .0834 .6537 .5501 .2815  
 .400 .0225 .0834 .6537 .5501 .2815  
 .500 .0225 .0834 .6537 .5501 .2815  
 .600 .0225 .0834 .6537 .5501 .2815  
 .700 .0225 .0834 .6537 .5501 .2815  
 .800 .0225 .0834 .6537 .5501 .2815  
 .900 .0225 .0834 .6537 .5501 .2815

ALPHA ( 2 ) = 7.839 BETA ( 2 ) = .143 MACH = 1.2463

RN/L = 3.0282

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000 .6877 .4841 .4097 .5559 .4759  
 .025 .1785 .1513 .1672 .2895 .2754  
 .050 .3167 .1427 .1471 .3908 .3374  
 .100 .2376 .0431 .0191 .4348 .4079  
 .200 .0447 .0331 .3961 .4802 .4162  
 .300 .1174 .0566 .5232 .4945 .2200  
 .400 .1174 .0566 .5232 .4945 .2200  
 .500 .1174 .0566 .5232 .4945 .2200  
 .600 .1174 .0566 .5232 .4945 .2200  
 .700 .1174 .0566 .5232 .4945 .2200  
 .800 .1174 .0566 .5232 .4945 .2200  
 .900 .1174 .0566 .5232 .4945 .2200



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V09)

ALPHA ( 4 ) = 7.857 BETA ( 3 ) = 4.208 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0282

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6338	.4614	.3362	.2667	.2153	
.025	.0741	-.2479	-.4631	-.4939	.0939	.2033	
.050	.1206	-.2202	-.4965	-.2788	.0991	.2160	
.150	.1623	-.0835	-.0972	-.0546	.0660	.2040	
.300	-.0292	-.1251	.4983	.5387	.4737	.0123	
.520	-.1966	.0495	.5609	.5286	.4029	.0710	
.685	-.4914	.5027	-.2004	.5403	.4949	.3010	
.775	-.7570	.4056	.5484	.3861	.2294	.4949	
.900		.3464	.4277	.4054	.2294	.5714	

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.885 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6616	.4257	.3060	.3544	.3471	
.025	.2830	.1884	.1249	.1249	.4732	.4651	
.050	.3460	.2080	.1258	.1258	.4701	.4484	
.150	.2110	.1053	.1521	.1521	.4577	.3986	
.300	.0345	.0014	.4561	.4561	.4697	.3789	
.520	-.0834	.0479	.5914	.5914	.4923	.2250	
.685	-.5359	.6359	.6355	.5517	.4422	.3852	
.775	-.3327	.6299	.6216	.4911	.3635	.5332	
.900		.5253	.4760	.4057	.3499	.1816	.5949

ALPHA ( 5 ) = 11.849 BETA ( 2 ) = .145 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6687	.4448	.3412	.4782	.4251	
.025	.1664	-.0624	.1919	.1919	.2425	.2374	
.050	.3037	.1189	.1760	.1760	.3431	.2900	
.150	.2223	.0088	-.0563	-.0563	.3731	.3605	
.300	.0174	-.0730	.3187	.3187	.4422	.3634	
.520	-.1495	.0395	.4546	.4546	.4286	.1668	
.685	-.5567	.5215	.1985	.5275	.4827	.3583	
.775	-.3609	.4517	.5748	.5561	.5053	.3302	
.900		.3334	.4284	.4036	.3545	.1838	.5066

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.848 BETA ( 3 ) = 4.220 MACH = 1.2447 Q = 599.41 P = 552.74 RN/L = 3.0279  
(XEBV09)

SECTION: 11 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6559	.4259	.2681	.1791	.1300		
.025	.0526	-.2525	-.4747	.0238	.1475		
.050	.1186	-.2303	-.5091	.0315	.1609		
.100	.1577	-.1043	-.3063	-.0267	.1472		
.300	-.0419	-.1548	.0231	-.0351	-.0584		
.500	-.2227	.0094	.4280	.4177	.0737		
.635	-.5225	.4440	.4881	.3847	-.3228		
.775	-.4040	.3534	.4879	.4692	.3470		
.900		.2915	.3787	.3235	.1906		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV10) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -3.883 MACH = 1.0977 Q = 598.52 P = 709.53 RN/L = 3.1914

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .6876 .5510 .5913 .6790 .6204  
 .025 .5302 .3719 .5918 .6623 .6021  
 .050 .5190 .3543 .5844 .6494 .5865  
 .150 .3914 .3055 .5765 .6047 .5253  
 .300 .2374 .2673 .6221 .5939 .4840  
 .520 .0944 .6357 .7859 .6489 .3316  
 .695 -.4097 .8389 -.2320 .8079 .7374  
 .775 -.0412 .6873 .7146 .6585 .5987  
 .900 .5271 .5265 .4768 .4151 .1749 .6124

ALPHA ( 1 ) = -4.035 BETA ( 2 ) = .155 MACH = 1.0977

Q = 598.52 P = 709.53 RN/L = 3.1914

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .7471 .6221 .7481 .7496 .6587  
 .025 .2532 -.0197 .1396 .3333 .2789  
 .050 .3747 .2011 .3660 .4279 .3664  
 .150 .2811 .1236 .4453 .5055 .4575  
 .300 .1215 .1153 .5664 .5568 .4626  
 .520 -.0119 .5660 .7343 .6158 .2864  
 .695 -.3632 .8235 -.2282 .7066 .4405  
 .775 -.0691 .6655 .7087 .6072 .5335  
 .900 .4911 .5048 .4670 .4085 .1746 .5815

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV10)

ALPHA ( 1 ) = -4.042 BETA ( 3 ) = 4.235 MACH = 1.0977 Q = 598.85 P = 709.53 RN/L = 3.1914

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000	.6711	.5412	.5286	.5119	.4539	
.025	.3196	-.3354	-.2687	.2451	.2961	
.050	.0423	-.2455	-.2410	.2484	.3040	
.150	.1274	-.0581	-.1829	.2465	.3028	
.200	.0822	-.0720	.3041	.2183	.2220	
.300	-.1190	.4059	.6949	.2470	-.2356	
.400	-.5123	.6034	-.2345	.6602	.1407	-.4697
.500	-.775	.5524	.6160	.6335	.2252	-.5966
.600	-.11391	.4232	.4537	.4488	.2997	-.6422

ALPHA ( 2 ) = .020 BETA ( 1 ) = -3.899 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000	.5429	.4565	.5131	.6029	.5559	
.025	.4546	.3269	.4773	.6184	.5595	
.050	.4631	.2369	.4757	.6027	.446	
.150	.3216	.2026	.5057	.5622	.4849	
.200	.1536	.1269	.5784	.5535	.4478	
.300	-.0095	.5943	.7379	.5989	.2983	
.400	-.4755	.8044	.7555	.6883	.5405	-.4518
.500	-.0753	.6748	.6220	.5596	.3926	-.5464
.600		.4917	.4444	.3803	.1483	-.5965

ALPHA ( 2 ) = .025 BETA ( 2 ) = .152 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000	.7049	.5595	.6421	.6865	.5875	
.025	.4827	-.0575	.0457	.2961	.2521	
.050	.3202	.1158	.2704	.4115	.3340	
.150	.2344	.0304	.3870	.4623	.4168	
.200	.1225	.0029	.5181	.5162	.4249	
.300	-.00323	.4310	.6783	.5677	.2423	
.400	-.4039	.7731	.7151	.5224	-.4108	
.500	-.775	.6719	.6323	.5653	.3902	-.5003
.600	-.1131	.4754	.4351	.3734	.1434	-.5391

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V10)

ALPHA ( 2 ) = .023 BETA ( 3 ) = 4.214 MACH = 1.0996 Q = 598.85 P = 707.64 RN/L = 3.1885

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6279	.4761	.4594	.4327	.3563	
.025	-.0652	-.3514	-.4284	-.4284	.1881	.2444	
.050	-.0347	-.3170	-.4128	-.4128	.1912	.2557	
.150	.0845	-.1310	-.2098	-.2098	.1902	.2537	
.300	-.0269	-.1341	.3573	.3573	.1594	.1760	
.520	-.1938	.2395	.6168	.6168	.2416	-.2514	
.655	-.5276	.5587	-.2055	.6431	.1739	-.4976	
.775	-.2167	.5319	.5921	.5819	.2976	-.5753	
.900		.3328	.4397	.4045	.3868	.3161	-.6099

ALPHA ( 3 ) = 3.934 BETA ( 1 ) = -3.903 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6262	.4331	.4170	.5177	.4758	
.025	.3435	.2135	.3183	.3183	.5657	.5105	
.050	.3713	.2295	.3481	.3481	.5509	.4961	
.150	.2552	.1325	.4182	.4182	.5110	.4392	
.300	.1022	.0422	.5156	.5156	.5053	.4013	
.520	-.0562	.5196	.6826	.6826	.5413	.2523	
.655	-.6658	.7716	-.1918	.7052	.6270	.4902	-.4737
.775	-.1980	.6206	.6314	.5747	.5168	.3574	-.5673
.900		.4773	.4550	.4030	.3448	.1172	-.6155

ALPHA ( 3 ) = 3.940 BETA ( 2 ) = .149 MACH = 1.0985 Q = 598.62 P = 708.59 RN/L = 3.1905

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6744	.4981	.4463	.6090	.5084	
.025	.1405	-.1142	-.1995	-.1995	.2500	.2099	
.050	.2821	.0994	-.1492	-.1492	.3894	.2960	
.150	.1972	.0058	.3165	.3165	.4117	.3661	
.300	.0144	-.0517	.4619	.4619	.4621	.3754	
.520	-.1426	.3720	.5933	.5933	.5071	.1902	
.655	-.5475	.6664	.6394	.5863	.4669	-.4126	
.775	-.2212	.5733	.6387	.5815	.5124	.3484	-.5006
.900		.4355	.4434	.3901	.3287	.1017	-.5400

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ALPHA ( 3 ) = 3.944 BETA ( 3 ) = 4.204 MACH = 1.085 Q = 598.62 P = 708.59 RN/L = 3.1905 (XEBV10)

SECTION 1 ( INVERTICAL ) DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
XICV	.5979	.4277	.3694	.3452	.2783		
.000	.1129	.3786	-.5176	.1332	.1978		
.025	-.0506	-.3735	-.5154	.1365	.2102		
.050	.0370	-.1822	-.2651	.1420	.2085		
.075	-.0664	-.1772	.3328	.0739	.1306		
.100	-.2632	.1726	.5377	.2656	-.2886		
.125	-.5110	.5917	.6084	.5910	-.5059		
.150	-.8374	.5316	.5557	.5040	-.5498		
.175	-.3347	.4075	.3462	.3321	-.5760		
.200							

ALPHA ( 1 ) = 7.852 BETA ( 1 ) = -3.899 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION 2 ( INVERTICAL ) DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
XICV	.6104	.3763	.3090	.4037	.3655		
.000	.3703	.1733	.1332	.5168	.4735		
.025	.2592	.1844	.2470	.5077	.4550		
.050	.2083	.1975	.2878	.4689	.3926		
.075	.1111	-.0350	.4382	.4606	.3554		
.100	-.1120	.0261	.6297	.4859	.1877		
.125	-.2632	.7439	.5670	.4230	-.4826		
.150	-.5110	.6713	.6039	.3120	-.5783		
.175	-.3347	.4328	.3373	.3027	-.6205		
.200							

ALPHA ( 2 ) = 7.852 BETA ( 2 ) = .144 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION 3 ( INVERTICAL ) DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
XICV	.6104	.3763	.3090	.4037	.3655		
.000	.3703	.1733	.1332	.5168	.4735		
.025	.2592	.1844	.2470	.5077	.4550		
.050	.2083	.1975	.2878	.4689	.3926		
.075	.1111	-.0350	.4382	.4606	.3554		
.100	-.1120	.0261	.6297	.4859	.1877		
.125	-.2632	.7439	.5670	.4230	-.4826		
.150	-.5110	.6713	.6039	.3120	-.5783		
.175	-.3347	.4328	.3373	.3027	-.6205		
.200							

ALPHA ( 3 ) = 7.852 BETA ( 3 ) = .144 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901

SECTION 4 ( INVERTICAL ) DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
XICV	.6104	.3763	.3090	.4037	.3655		
.000	.3703	.1733	.1332	.5168	.4735		
.025	.2592	.1844	.2470	.5077	.4550		
.050	.2083	.1975	.2878	.4689	.3926		
.075	.1111	-.0350	.4382	.4606	.3554		
.100	-.1120	.0261	.6297	.4859	.1877		
.125	-.2632	.7439	.5670	.4230	-.4826		
.150	-.5110	.6713	.6039	.3120	-.5783		
.175	-.3347	.4328	.3373	.3027	-.6205		
.200							

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ALPHA ( 4 ) = 7.898 BETA ( 3 ) = 4.206 MACH = 1.0980 Q = 598.61 P = 709.30 RN/L = 3.1901  
(XEBV10)

SECTION ( 1 ) INVERTICAL DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5953	.3716	.2658	.2355	.1785		
.025	-.0461	-.3863	-.5490	.0667	.1453		
.050	.0110	-.3339	-.5289	.0694	.1596		
.100	.0586	-.2050	-.3917	.0717	.1498		
.150	-.1312	-.2351	.2319	-.0676	.0468		
.200	-.3153	-.0452	.4739	.3386	-.2796		
.250	-.5323	.5330	.5280	.5314	.3536	-.4976	
.300	-.7549	.4630	.4898	.4507	.3556	-.5397	
.350		.3373	.3630	.2806	.1869	-.5555	

ALPHA ( 5 ) = 11.921 BETA ( 1 ) = -3.873 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION ( 1 ) INVERTICAL DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6415	.3609	.2301	.3097	.2791		
.025	.2015	.0940	.0826	.4716	.4325		
.050	.2852	.1327	.1329	.4575	.4153		
.100	.1448	.0177	.3488	.4315	.3551		
.150	-.0443	-.0693	.4355	.4214	.3155		
.200	-.1432	.3957	.5905	.4358	.1298		
.250	-.6565	.7652	.6032	.5151	.3813	-.4830	
.300	-.8258	.6076	.5945	.4317	.2819	-.5897	
.350		.4997	.4254	.3379	.2705	-.6374	

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .146 MACH = 1.0991 Q = 599.16 P = 708.60 RN/L = 3.1919

SECTION ( 1 ) INVERTICAL DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6321	.3911	.2868	.4644	.3910		
.025	.1052	-.1969	-.3224	.1737	.1431		
.050	.2376	.0136	-.2672	.2954	.2177		
.100	.1326	-.0877	-.0922	.3288	.2874		
.150	-.0786	-.1708	.3665	.3723	.2679		
.200	-.2507	.1649	.4432	.3823	.0865		
.250	-.6400	.5662	.4955	.3823	.4373		
.300	-.7512	.4916	.5733	.4286	.2519	-.5307	
.350		.3869	.3856	.2665	.0419	-.5665	

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ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.214 MACH = 1.0991 Q = 599.16 P = 709.60 RN/L = 3.1919  
SECTION 11 VERTICAL (XEBV10)

DEPENDENT VARIABLE CP

Z/S4	.1580	.3170	.4590	.6020	.6970	.8390	.9250
003	.6303	.3536		.1967		.1108	.0433
.028	-.0119	-.4043		-.6194		.0092	.0811
.053	.0933	-.3486		-.8461		.0006	.0922
.153	.0597	-.2133		-.4361		-.1060	.0467
.403	-.1636	-.2671		.1540		-.1077	.1481
.533	-.3440	-.0462		.4081		.3491	-.0738
.583	-.5988	.4727		.4531	.4181	.3121	.4754
.715	-.4459	.3661	-.1997	.4262	.2897	.2566	-.5461
.913		.2370	.3265	.2738	.2382	.0659	-.5609



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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV11) ( 13 AUG 75 )

REFERENCE DATA

SPCS = 2600.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000  
BOFLAP = 22.500 L-ELVN = .000  
R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.067 BETA ( 1 ) = -3.873 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION 1 ( INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5097	.3941		.4753		.5467	.4799
.025	.3975	.3191		.5228		.5292	.4520
.050	.3821	.3139		.4932		.5105	.4388
.075	.2829	.2329		.4550		.4567	.3683
.100	.1408	.1923		.4945		.4392	.3211
.125	-.0368	.5300		.6522		.4999	.1461
.150	-.1720	.7222	-.2365	.6718	.5972	.4289	-.3394
.175	-.12715	.5555	.5702	.5072	.4373	.2499	-.3507
.200	.3705	.3483	.2957	.2332	.0216	-.3504	

ALPHA ( 2 ) = -4.047 BETA ( 2 ) = .148 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION 2 ( INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5920	.5204		.6551		.6187	.5172
.025	.0821	-.1570		.0299		.1607	.0874
.050	.2757	.0955		.2604		.2993	.2310
.075	.1182	.0531		.3109		.3393	.2865
.100	.0189	.0557		.4204		.3896	.2805
.125	-.1634	.4503		.5938		.4604	.1156
.150	-.1942	.6927	-.2268	.6333	.5603	.4250	-.3430
.175	-.12615	.5153	.5544	.4365	.4341	.2546	-.3555
.200	.3229	.3202	.3202	.2706	.2089	.0065	-.3665

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV11)

ALPHA ( 1 ) = -4.057 BETA ( 3 ) = 4.239 MACH = .90043 Q = 600.11 P = 1057.3 RN/L = 3.5778

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4879	.3685	.3997	.3683	.2972	
.025	.1990	-.6212	-.3325	.0658	.1040	
.050	-.0932	-.5535	-.3118	.0677	.1121	
.075	-.1182	-.2852	-.2598	.0658	.1140	
.100	-.1612	-.1139	.0820	.0301	.0408	
.125	-.2773	.3444	.6378	.0882	-.2522	
.150	-.2336	.6234	.6238	.4441	.0135	.3474
.175	-.2778	.6293	.4937	.4701	.0686	-.3663
.200	-.2716	.2716	.2702	.2692	.0810	-.3981

ALPHA ( 2 ) = .016 BETA ( 1 ) = -3.906 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4439	.2881	.4020	.4749	.4130	
.025	.3350	.2557	.4925	.4912	.4182	
.050	.3100	.2421	.4673	.4713	.4019	
.075	.1988	.1874	.4365	.4199	.3298	
.100	.0883	.1515	.4034	.4013	.2797	
.125	-.0751	.4834	.6116	.4434	.1027	
.150	-.1808	.8884	.6261	.5463	.3819	-.3427
.175	-.2751	.6273	.4675	.3951	.2120	-.3518
.200	-.3175	.3192	.2643	.1958	-.0071	-.3626

ALPHA ( 3 ) = .014 BETA ( 2 ) = .139 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4551	.3116	.5319	.5597	.4437	
.025	.3026	-.2365	.4035	.1278	.0660	
.050	.2473	.0055	.4200	.2912	.2123	
.075	.1418	.0014	.2797	.3015	.2418	
.100	.0348	.0018	.3096	.3519	.2408	
.125	-.0674	.0008	.2533	.4152	.0725	
.150	-.1613	.0003	.1593	.5128	-.3568	.0725
.175	-.2473	.0003	.0527	.3920	.2096	-.3702
.200	-.3175	.0003	.0003	.1732	-.0350	-.3848

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V11)

ALPHA ( 2 ) = .024 BETA ( 3 ) = 4.220 MACH = .89947 Q = 599.38 P = 1058.3 RN/L = 3.5741

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4355	.2949	.3119	.2531	.1814
.025	-.2658	-.6963	-.3565	-.0329	.0148
.050	-.1763	-.6273	-.3469	-.0327	.0275
.100	-.1644	-.3378	-.3058	-.0527	.0148
.300	-.2552	-.1738	.0700	.0324	-.0678
.520	-.2978	.3169	.4944	.1677	-.2061
.685	-.2376	.4954	.5732	.3522	.1378
.775	-.2836	.4397	.4248	.2737	-.3749
.900		.2411	.2388	.2154	-.0445

ALPHA ( 3 ) = 3.936 BETA ( 1 ) = -3.911 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3869	.2431	.3164	.3953	.3370
.025	.2547	.1993	.4616	.4511	.3794
.050	.2485	.1992	.4327	.4334	.3593
.100	.1353	.1444	.4056	.3834	.2876
.300	.0422	.1230	.4303	.3600	.2392
.520	-.1058	.4799	.5609	.3932	.0608
.685	-.2082	.6793	.5727	.4892	.3273
.775	-.2940	.5273	.5014	.3512	.1655
.900		.3560	.2932	.1572	-.0461

ALPHA ( 3 ) = 3.937 BETA ( 2 ) = .151 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5049	.2588	.5330	.4978	.3821
.025	-.0589	-.2683	.0094	.1115	.0485
.050	.0861	-.0345	.2014	.2893	.1819
.100	-.0082	-.0497	.2550	.2700	.2103
.300	-.0914	-.0122	.3545	.3135	.2086
.520	-.1900	.4128	.5072	.3673	.0368
.685	-.2172	.6512	.4601	.3249	-.3454
.775	-.2647	.4739	.4714	.3488	.1683
.900		.2917	.2531	.1346	-.0547

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ALPHA ( 3 ) = 3.940 BETA ( 3 ) = 4.207 MACH = .89917 Q = 599.47 P = 1059.2 RN/L = 3.5758  
 (XEBV11)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3765	.2377		.2368		.1818	.0980
.025	-.2998	-.7290		-.3587		-.0593	-.0101
.050	-.2143	-.6868		-.3418		-.0683	-.0001
.150	-.1912	-.4089		-.3068		-.0905	-.0302
.300	-.3219	-.1715		.0558		.0391	-.1113
.520	-.3214	.3189		.4288		.1382	-.2065
.685	-.2567	.5142	-.2046	.5001	.3559	.0543	-.3589
.775	-.2912	.4952	.4091	.3700	.3454	.0121	-.3852
.900		.2311	.2238	.1715	.1756	-.0721	-.4048

ALPHA ( 4 ) = 7.890 BETA ( 1 ) = -3.900 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3489	.1906		.2597		.3252	.2666
.025	-.2029	.1549		.4328		.4167	.3393
.050	.2121	.1583		.4012		.4014	.3195
.150	.0854	.0907		.3778		.3469	.2496
.300	-.0083	.0836		.4086		.3231	.2018
.520	-.1313	.4624		.5312		.3435	.0175
.685	-.2212	.6799	-.2003	.5418	.4420	.2831	-.3512
.775	-.2862	.5313	.4909	.3988	.3126	.1361	-.3643
.900		.3655	.2833	.1964	.1211	-.0782	-.3901

ALPHA ( 4 ) = 7.894 BETA ( 2 ) = .145 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4657	.3101		.4828		.4373	.3236
.025	-.0953	-.2899		-.0148		.0938	.0179
.050	.0550	-.0574		.1626		.2597	.1351
.150	-.0311	-.0831		.2297		.2376	.1717
.300	-.1278	-.0393		.3300		.2740	.1650
.520	-.2204	.3798		.4717		.3140	-.0085
.685	-.2730	.6260	-.1937	.4958	.4107	.2687	.3467
.775	-.2758	.4805	.4668	.3783	.3052	.1245	-.3613
.900		.3101	.2474	.1700	.1002	-.0958	-.3783

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ALPHA ( 4 ) = 7.892 BETA ( 3 ) = 4.207 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5790  
(XE8V111)

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV	.6020	.8390 .9250
.000	.3595	.1656	.0987 .0204
.025	-.2447	-.4140	-.1009 -.0432
.050	-.1347	-.4095	-.0954 -.0229
.150	-.1736	-.4118	-.1456 -.0616
.300	-.3244	-.2050	-.1737 -.1375
.520	-.3479	.2979	.3845 .1128 -.1950
.685	-.2640	.5284	-.2022 .3618 .0138 -.3592
.775	-.2940	.4073	.4046 .3109 .2902 .0045 -.3918
.900		.2389 .2128	.1142 .1149 -.0803 -.4133

ALPHA ( 5 ) = 11.932 BETA ( 1 ) = -3.884 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV	.6020	.8390 .9250
.000	.3717	.1796	-.2327 .1735
.025	.0056	.0262	.3916 .3046
.050	.0735	.0529	.3683 .2822
.150	-.0192	.0204	.3128 .2128
.300	-.1045	.0327	.2868 .1621
.520	-.1859	.4423	.3042 -.0320
.685	-.2577	.6751	.4040 .2393 -.3626
.775	-.3027	.5294	.4716 .2797 .0988 -.3801
.900		.3736 .2699	.1701 .0926 -.1112 -.4019

ALPHA ( 5 ) = 11.939 BETA ( 2 ) = .149 MACH = .89887 Q = 599.34 P = 1059.7 RN/L = 3.5747

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV	.6020	.8390 .9250
.000	.4061	.2653	.3935 .2879
.025	-.0418	-.2914	.0777 -.0004
.050	.0213	-.1189	.2120 .1132
.150	-.0642	-.1118	.2080 .1448
.300	-.1728	-.0754	.2430 .1365
.520	-.2531	.3336	.2914 -.0382
.685	-.2555	.5632	.3966 .2380 -.3645
.775	-.2962	.4252	.2833 .1030 -.3775
.900		.2659 .2140	.0829 -.1138 -.3830

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV11)

ALPHA ( 5 ) = 11.928    BETA ( 3 ) = 4.228    MACH = .89887    Q = 599.34    P = 1059.7    RAV/L = 3.5747

SECTION : 11 VERTICAL

DEPENDENT VARIABLE CP

Z/8V    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.3592	.1804	.0857	.0343	-.0507
.025	-.1305	-.6064	-.4820	-.1135	-.0505
.050	-.0649	-.4842	-.4687	-.1054	-.0376
.150	-.1309	-.3403	-.4351	-.1464	-.0756
.300	-.2886	-.2608	.2102	-.0759	-.1471
.520	-.3738	.2277	.3547	.0829	-.2856
.685	-.2836	.4540	-.2463	.3516	-.0164
.775	-.2999	.3360	.3540	.2592	-.3645
.900	.1790	.1535	.0912	.0504	-.3927
				-.0132	-.4118

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

(XEBV12) ( 13 AUG 75 )

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 85.000  
 BDFLAP = 22.500 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.057 BETA ( 1 ) = -7.889 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .0597 -.2019  
 .025 .5162 .4918  
 .050 .4668 .4441  
 .150 .3245 .3267  
 .320 .1976 .2453  
 .520 -.0577 .4362  
 .685 -.2572 .6386  
 .775 -.2587 .4787  
 .900 .2649

DEPENDENT VARIABLE CP

.0549 .0281  
 .5377 .4551  
 .5141 .4291  
 .4256 .3165  
 .3695 .2337  
 .3802 .0353  
 .3284 -.3411  
 .3331 .1715  
 .1215 .0107

ALPHA ( 1 ) = -4.036 BETA ( 2 ) = -3.874 MACH = .59636 Q = 593.96 P = 2385.7 RN/L = 4.8160

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3882 .2757  
 .025 .3473 .3106  
 .050 .3270 .2912  
 .150 .2084 .2035  
 .300 .1021 .1594  
 .520 -.1216 .3957  
 .635 -.2516 .6131  
 .775 -.2801 .4391  
 .900 .2205

DEPENDENT VARIABLE CP

.4030 .3068  
 .4284 .3715  
 .4096 .3471  
 .3468 .2660  
 .3280 .2096  
 .3839 .0611  
 .4877 .3396  
 .3099 .1571  
 .1006 -.0033

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V12)

ALPHA ( 1 ) = -4.017 BETA ( 3 ) = .163 MACH = .59636 0 = 593.96 P = 2385.7 RN/L = 4.8160

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5295	.5057	.5933	.5325	.4493
.025	.0268	-.2027	-.0345	.0950	-.0722
.050	.1415	.0557	.1701	.1910	.1530
.150	.0808	.0354	.2232	.2282	.1733
.300	-.0138	.0421	.3072	.2765	.1712
.520	-.1998	.3535	.4929	.3603	.0511
.685	-.2750	.5799	.5323	.3494	-.3019
.775	-.2769	.3951	.4035	.2982	-.3138
.900		.1653	.1374	.1058	.0691
					-.0127
					-.3460

ALPHA ( 1 ) = -4.026 BETA ( 4 ) = 4.234 MACH = .59636 0 = 593.96 P = 2385.7 RN/L = 4.8160

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3845	.2404	.2892	.1366	.1103
.025	-.2504	-.4817	-.2905	-.1703	-.4389
.050	-.2095	-.3803	-.2274	-.1458	-.3355
.150	.1618	-.2423	-.0646	-.1631	-.2266
.300	-.1390	-.0957	.1321	.1159	.1430
.520	-.2578	.2390	.3768	.2889	.0272
.685	-.3101	.4447	.4068	.2968	-.3045
.775	-.2912	.3177	.3289	.2354	.1720
.900		.1284	.0797	.0064	-.3530

ALPHA ( 1 ) = -4.040 BETA ( 5 ) = 8.307 MACH = .59636 0 = 593.96 P = 2385.7 RN/L = 4.8160

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0358	-.3967	-.2595	-.1768	-.1549
.025	-.5028	-.9765	-.5830	-.2452	-.1771
.050	-.5016	-.7651	-.5815	-.2466	-.1695
.150	-.6841	-.7254	-.5558	-.2516	-.1580
.300	-.2966	-.3771	-.4896	-.2733	-.1847
.520	-.3336	.0579	-.0965	-.3081	-.3187
.685	-.3243	.2313	.0239	-.3336	-.3972
.775	-.3117	.1968	.2315	-.1535	-.4216
.900		.0417	.0653	-.0487	-.4488



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

DATE 14 FEB 76  
 ALPHA ( 2 ) = .047 BETA ( 1 ) = -7.924 MACH = .59654 Q = 594.31 P = 2395.7 RN/L = 4.8134  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV12)

DEPENDENT VARIABLE CP

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 -.0030 -.2934 -.2953 -.0169 -.0473  
 .025 .4683 .4407 .5454 .4911 .4030  
 .050 .4204 .3903 .5116 .4678 .3813  
 .150 .2786 .2912 .4461 .3837 .2770  
 .300 .1585 .2187 .4237 .3342 .1956  
 .520 -.0804 .4206 .5049 .3399 .0069  
 .685 -.2637 .6204 .5175 .2867 -.3244  
 .775 -.2939 .4689 .4278 .1393 .3425  
 .900 .2516 .1791 .1289 .0860 -.0156 -.3358

ALPHA ( 2 ) = .057 BETA ( 2 ) = -3.897 MACH = .59654 Q = 594.31 P = 2395.7 RN/L = 4.8134

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .3346 .2052 .2544 .3194 .2259  
 .025 .3057 .2654 .4258 .3968 .3359  
 .050 .2744 .2537 .3906 .3758 .3128  
 .150 .1638 .1252 .3432 .3154 .2243  
 .300 .0624 .1252 .3573 .2930 .1729  
 .520 -.1480 .3745 .4687 .3368 .0214  
 .685 -.2705 .5954 .5120 .2953 -.3184  
 .775 -.2822 .4295 .4030 .1308 -.3403  
 .900 .2148 .1520 .1073 .0680 -.0275 -.3551

ALPHA ( 2 ) = .058 BETA ( 3 ) = .160 MACH = .59654 Q = 594.31 P = 2395.7 RN/L = 4.8134

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .4841 .4483 .5394 .4725 .3833  
 .025 -.0143 -.2450 -.0450 .0514 -.0933  
 .050 .0932 .0201 .1535 .1813 .1121  
 .150 .0317 -.0004 .1996 .1942 .1409  
 .300 -.0507 .0141 .2789 .2398 .1345  
 .520 -.2193 .3303 .4561 .3200 .0223  
 .685 -.2851 .5688 -.1804 .4164 .3057 -.3123  
 .775 -.2803 .3851 .3121 .2651 .1378 -.3259  
 .900 .1632 .1128 .0764 .0364 .0402 -.3390

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV12)

ALPHA ( 2 ) = .052 BETA ( 4 ) = 4.215 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3145	.1819	.2131	.0742	.0369
.025	-.3030	-.4952	-.3074	-.1931	-.3982
.050	-.2629	-.4281	-.2513	-.1848	-.3097
.100	-.2035	-.2654	-.1286	-.2715	-.2125
.200	-.1831	-.1125	.1096	.1372	.1105
.300	-.2831	.2272	.3652	.2511	-.0101
.400	-.3019	.4233	.4080	.3286	-.3129
.500	-.2903	.3012	.3008	.1990	-.3326
.600	.0912	.0611	.0611	-.0135	-.3402

ALPHA ( 2 ) = .049 BETA ( 5 ) = 8.271 MACH = .59654 Q = 594.31 P = 2385.7 RN/L = 4.8134

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0863	-.4799	-.3403	-.2402	-.2358
.025	-.5566	-.9389	-.5897	-.2585	-.1846
.050	-.5633	-.8203	-.5972	-.2611	-.1772
.100	-.7349	-.8392	-.5811	-.2725	-.1796
.200	-.3320	-.3798	-.5121	-.2387	-.1982
.300	-.3534	.0837	-.0871	-.3091	-.3294
.400	-.3301	.2716	.0075	-.3018	-.4028
.500	-.3124	.2256	.1812	-.1446	-.4166
.600	.0575	.0575	.1136	-.0469	-.4383

ALPHA ( 3 ) = 3.956 BETA ( 1 ) = -7.937 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0677	-.3617	-.3575	-.1020	-.0937
.025	.4245	.4075	.4944	.4409	.3562
.050	.3790	.3581	.4756	.4238	.3417
.100	.2451	.2499	.4076	.3515	.2419
.200	.1265	.1918	.3891	.3011	.1708
.300	-.0386	.4014	.4652	.3071	-.0061
.400	-.2752	.5039	.4732	.4041	-.2984
.500	-.2966	.4555	.3187	.2577	-.3151
.600	.2418	.1443	.0901	.0497	-.0268
.700					-.3003

DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V12)  
 ALPHA ( 3 ) = 3.958 BETA ( 2 ) = -3.898 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2868	.1542	.1844	.3898	.2564	.1635	
.000	.2594	.2350	.3551	.3413	.3580	.2941	
.025	.2336	.2129	.3140	.2795	.2795	.2726	
.050	.1259	.1402	.3261	.2593	.2593	.1386	
.150	.0248	.0994	.4523	.2997	.2997	.0019	
.300	.1664	.3585	.4003	.2584	.2584	.3060	
.450	.2763	.5781	.2971	.1057	.1057	.3262	
.600	.2831	.4203	.3744	.2377	.2377	.3424	
.750	.2093	.1352	.0786	.0377	.0377		
.900							

ALPHA ( 3 ) = 3.957 BETA ( 3 ) = .162 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4510	.4024	.4828	.4143	.4172	.3162	
.000	.0307	.2496	.0418	.0172	.0846	.0846	
.025	.0640	.0055	.1294	.1599	.0983	.0983	
.050	.0028	.0278	.1806	.1661	.1123	.1123	
.150	.0764	.0085	.2550	.2098	.1064	.1064	
.300	.2336	.3095	.4181	.2816	.0082	.0082	
.450	.2805	.5529	.4514	.3744	.2600	.3137	
.600	.2725	.3724	.2816	.2267	.0943	.3285	
.750	.1570	.0915	.0536	.0068	.0670	.3466	
.900							

ALPHA ( 3 ) = 3.954 BETA ( 4 ) = 4.202 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8206

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2723	.1213	.1377	.0028	.0474		
.000	.3259	.5172	.3328	.2276	.3540		
.025	.2878	.4741	.2761	.2178	.2919		
.050	.2492	.3033	.2114	.3326	.1690		
.150	.2018	.1327	.1132	.1415	.0581		
.300	.2926	.2182	.3382	.2163	.0640		
.450	.2839	.4148	.2870	.2085	.2945		
.600	.2785	.2314	.2905	.1640	.3140		
.750	.0835	.0550	.0317	.0832	.3295		
.900							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV12)

ALPHA ( 3 ) = 3.950 BETA ( 5 ) = 8.252 MACH = .59690 Q = 595.02 P = 2395.7 RN/L = 4.8206

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1310	-.5364	-.4033	-.2843	-.2805
.025	-.5993	-1.0112	-.6004	-.2771	-.1931
.050	-.6273	-.8718	-.6113	-.2750	-.1895
.100	-.7556	-.9428	-.6108	-.2852	-.1862
.150	-.3636	-.3431	-.5343	-.3047	-.2093
.200	-.3581	-.0929	-.0475	-.3228	-.3228
.250	-.3233	-.3445	-.0371	-.2859	-.3830
.300	-.3051	-.2752	-.1443	-.0970	-.3959
.350	-.2872	-.0246	-.0601	-.0212	-.2995
.400					-.4140

ALPHA ( 4 ) = 7.904 BETA ( 1 ) = -7.922 MACH = .59690 Q = 595.02 P = 2395.7 RN/L = 4.8202

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1200	-.4481	-.4286	-.1654	-.1440
.025	-.3276	-.3571	-.4521	-.4022	-.3146
.050	-.3402	-.3392	-.4340	-.3915	-.3024
.100	-.2153	-.2311	-.3763	-.3242	-.2230
.150	-.1093	-.1767	-.3544	-.2811	-.1620
.200	-.1071	-.3355	-.4324	-.2811	-.0078
.250	-.2703	-.5480	-.4400	-.3701	-.2527
.300	-.2699	-.4434	-.2933	-.2364	-.1158
.350	-.2418		-.0802	-.0450	-.2553
.400					

ALPHA ( 5 ) = 7.913 BETA ( 2 ) = -3.891 MACH = .59690 Q = 595.02 P = 2395.7 RN/L = 4.8202

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2742	-.1123	-.1389	-.1878	-.1062
.025	-.2060	-.2022	-.3556	-.3204	-.2541
.050	-.1934	-.1830	-.3249	-.3019	-.2369
.100	-.0925	-.1127	-.2902	-.2470	-.1545
.150	-.0006	-.0437	-.2886	-.2220	-.1114
.200	-.1793	-.2452	-.4200	-.2617	-.0302
.250	-.2827	-.3567	-.4319	-.2158	-.2998
.300	-.2753	-.4183	-.2684	-.0775	-.3174
.350		-.2422	-.0552	-.0695	-.3376
.400					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 4 ) = 7.912 BETA ( 3 ) = .160 MACH = .59690 Q = 595.02 P = 2385.7 RN/L = 4.8202 (XE8V12)

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4246	.3612	.4319	.3587	.2721		
.000	-.0597	-.2771	-.0723	-.0051	-.1152		
.025	-.0323	-.0391	.1079	.1345	.0720		
.050	-.0335	-.0440	.1571	.1345	.0861		
.100	-.1026	-.0271	.2317	.1739	.0808		
.150	-.1243	.3092	.3953	.2422	-.0437		
.200	-.1274	.5397	.4117	.3320	.2124	-.3162	
.250	-.1263	.3614	.3228	.2519	.1953	.0689	-.3379
.300		.1526	.0713	.0230	-.0181	-.0857	-.3639

ALPHA ( 4 ) = 7.910

BETA ( 4 ) = 4.204

MACH = .59690

RN/L = 4.8202

P = 2385.7

Q = 595.02

Q = 595.02

Q = 595.02

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2551	.0279	.0596	-.0665	-.1124		
.000	-.3456	-.5348	-.3563	-.2603	-.3331		
.025	-.3232	-.5045	-.3057	-.2603	-.2860		
.050	-.2743	-.2631	-.2790	-.3517	-.1183		
.100	-.1245	-.1419	.1224	.1260	.0086		
.150	-.3091	.2103	.3054	.1856	-.0857		
.200	-.2720	.4193	.3593	.2301	.1562	-.2936	
.250	-.2438	.2944	.2182	.1402	.0433	-.3188	
.300		.0312	-.0424	-.0342	-.0874	-.3317	

ALPHA ( 4 ) = 7.909

BETA ( 5 ) = 8.256

MACH = .59690

RN/L = 4.8202

P = 2385.7

Q = 595.02

Q = 595.02

Q = 595.02

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.1935	-.6117	-.4689	-.3337	-.3467		
.000	-.6747	-.10517	-.5780	-.2933	-.2098		
.025	-.6821	-.9314	-.5954	-.2883	-.2088		
.050	-.8364	-.9692	-.6146	-.3106	-.2055		
.100	-.3650	-.3495	-.5431	-.3311	-.2286		
.150	-.3741	.0335	-.0715	-.3171	-.3340		
.200	-.3741	.3507	-.1772	-.2885	-.3795	-.3507	
.250	-.3033	.2649	.1090	-.1174	-.3707	-.3698	
.300	-.3091	.0752	-.0310	-.0036	-.2990	-.3712	

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ALPHA ( 5 ) = 11.950 BETA ( 1 ) = -7.879 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162  
 (XEBV12)

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1167	-.5176	-.4636	-.2359	-.2103		
.025	.2967	.3405	.4135	.3576	.2642		
.050	.2490	.3055	.4062	.3507	.2599		
.100	.1250	.2075	.3578	.2936	.1849		
.150	.0454	.1692	.3398	.2527	.1299		
.200	-.1224	.4021	.4012	.2477	-.0227		
.250	-.2518	.6035	.4069	.1939	-.2644		
.300	-.2871	.4562	.2603	.2067	-.2658		
.350		.2554	.1185	.0237	-.0351		

ALPHA ( 5 ) = 11.968 BETA ( 2 ) = -3.871 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2878	.0982	.0762	.1216	.0559		
.025	.1926	.1783	.3350	.2920	.2191		
.050	.1774	.1671	.3058	.2717	.1965		
.100	.0597	.0934	.2656	.2194	.1281		
.150	-.0263	.0703	.2789	.1951	.0802		
.200	-.2031	.3408	.3669	.2216	-.0642		
.250	-.2837	.5712	.3921	.1735	-.3043		
.300	-.2675	.4238	.3386	.0508	-.3222		
.350		.2251	.1036	-.0080	-.3384		

ALPHA ( 5 ) = 11.970 BETA ( 3 ) = .156 MACH = .59660 Q = 594.43 P = 2385.7 RN/L = 4.8162

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4071	.3279	.3878	.3103	.2205		
.025	-.0676	-.2749	-.0676	-.0274	-.1168		
.050	.0156	-.0516	.0880	.0973	.0501		
.100	-.0471	-.0613	.1413	.1146	.0565		
.150	-.1179	-.0370	.2055	.1461	.0489		
.200	-.2529	.2967	.3498	.2046	-.0693		
.250	-.2753	.5275	.3776	.2905	-.3246		
.300	-.2536	.3601	.2198	.1646	-.3403		
.350		.1526	.0007	-.0384	-.1032		

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL									
ALPHA ( 5 ) = 11.953		BETA ( 4 ) = 4.216		MACH = .59660		Q = 594.43		P = 2385.7	
								RNL = 4.8162	
SECTION ( 1 ) VERTICAL									
Z/87		.1580	.3170	.4590	.6020	.6970	.8390	.9250	
X/ICV									
.000	.2838	.0497		.0054		-.1257	-.1845		
.025	-.3218	-.5495		-.3849		-.2944	-.3067		
.050	-.2944	-.5311		-.3430		-.2906	-.2731		
.150	-.2438	-.2960		-.3225		-.3561	-.1537		
.300	-.2319	-.1525		.1144		.0949	-.0553		
.520	-.3232	.2042		.2696		.1303	-.0984		
.695	-.2631	.4393	-.1709	.3155	.2001	.0994	-.3124		
.775	-.2436	.2976	.2608	.1756	.1303	.0100	-.3267		
.900		.0952	.0264	-.0438	-.0419	-.1060	-.3401		
ALPHA ( 5 ) = 11.959 BETA ( 5 ) = 8.279 MACH = .59660 Q = 594.43 P = 2385.7 RNL = 4.8162									

SECTION ( 1 ) VERTICAL									
Z/87		.1580	.3170	.4590	.6020	.6970	.8390	.9250	
X/ICV									
.000	-.1934	-.6749		-.5407		-.3808	-.4421		
.025	-.7595	-1.0087		-.5782		-.3204	-.2459		
.050	-.7765	-.9313		-.5889		-.3192	-.2445		
.150	-.4554	-.9771		-.6084		-.3416	-.2533		
.300	-.4621	-.3572		-.5837		-.3625	-.2757		
.520	-.4806	.0414		-.1599		-.3701	-.3725		
.695	-.3712	.2912	-.1789	-.1413	-.3751	-.4317	-.3947		
.775	-.3662	.2381	.1352	.6054	-.2051	-.4284	-.3775		
.900		.0612	-.0122	-.0024	-.0690	-.3468	-.4173		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV13) ( 13 AUG 75 )

## REFERENCE DATA

XREF = 650.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 YREF = 474.8000 IN. YMRP = .0000 IN. YO  
 ZREF = 355.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -.106 BETA ( 1 ) = -3.886 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118  
 SECTION ( 1 ) VERTICAL

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.7851	.6784	.5507	.4667	.4743	.4606	.6474
.999	.6152	.5243	.4667	.4641	.4650	.4776	.4789
.998	.5226	.4258	.3928	.3928	.4068	.4230	.4230
.997	.4303	.3339	.3125	.3125	.4258	.3629	.3629
.996	.3379	.2414	.3118	.3118	.3519	.3083	.3083
.995	.2455	.1847	.2918	.2918	.3880	.4136	.4136
.994	.1530	.0993	.2282	.2282	.3367	.3106	.3106
.993	.0606	.0486	.1737	.1737	.2618	.1354	.2462

ALPHA ( 2 ) = .030 BETA ( 2 ) = .154 MACH = 1.3946 Q = 599.93 P = 440.65 RN/L = 2.9118  
 SECTION ( 2 ) VERTICAL

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.8333	.7423	.7058	.6635	.5934	.5934	.5934
.999	.6801	.6193	.6289	.6185	.6603	.6603	.6603
.998	.5403	.5221	.5742	.5371	.6031	.6031	.6031
.997	.4340	.4212	.4235	.4244	.4191	.4191	.4191
.996	.3331	.3110	.3551	.3130	.3314	.3314	.3314
.995	.2293	.2123	.2337	.2720	.2336	.2336	.2336
.994	.1345	.1610	.2082	.2817	.2572	.2572	.2572
.993	.0457	.0713	.2037	.2403	.2479	.2479	.2479
.992	.0000	.0000	.0834	.1819	.0774	.0774	.0774



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV13)

ALPHA ( 1 ) = -4.039 BETA ( 3 ) = 4.249 MACH = 1.3946 Q = 599.93 P = 440.65 RV/L = 2.9118

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7657	.6638	.6104	.5356	.4843
.025	.0942	-.0746	-.4341	-.4824	-.5298
.050	.1094	-.0805	-.4195	-.4519	-.4913
.150	.2087	.0356	-.0500	-.3363	-.3458
.300	.2105	.0805	.0326	.0205	-.1815
.520	.0448	.0084	.0733	.1474	.1841
.685	-.3845	-.0221	.1321	.3045	-.1796
.775	-.3689	-.0637	.0408	.1318	.1982
.900	-.1197	-.0695	.0880	.0339	-.2418

ALPHA ( 2 ) = -.033 BETA ( 1 ) = -3.905 MACH = 1.3950 Q = 599.93 P = 440.41 RV/L = 2.9115

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7126	.5933	.5743	.5608	.5511
.025	.5212	.4449	.3872	.3931	.3890
.050	.5411	.4458	.3836	.3879	.3928
.150	.4485	.3461	.3198	.3286	.3302
.300	.3112	.2597	.2397	.3317	.3061
.520	.1538	.1477	.2342	.2756	.2482
.685	-.3476	.0665	.1762	.3446	-.1958
.775	-.3445	.0365	.2383	.2699	-.1820
.900	-.0050	.1129	.2097	.2121	-.2749

ALPHA ( 2 ) = -.028 BETA ( 2 ) = .144 MACH = 1.3950 Q = 599.93 P = 440.41 RV/L = 2.9115

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7599	.6682	.6224	.5651	.4785
.025	.2119	.0938	-.0227	-.0256	-.1067
.050	.3944	.2920	.0141	-.0146	-.0553
.150	.3723	.2149	.1621	.1621	.1505
.300	.2232	.1464	.1222	.1492	.1403
.520	.0689	.0523	.1279	.2074	.1729
.685	-.3904	.0127	.1359	.2262	.2901
.775	-.3546	-.0319	.0837	.1459	.2001
.900	-.0964	.0254	.1112	.1231	.0488

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV13)

ALPHA ( 2 ) = -.033    BETA ( 3 ) = 4.229    MACH = 1.3950    Q = 599.93    P = 440.41    RN/L = 2.9115

## SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .6871    .5972    .5367    .4546    .3561  
 .025    -.0355    -.1372    -.4395    -.4908    -.5376  
 .050    -.0342    -.1365    -.4267    -.4628    -.4988  
 .150    .1448    -.0278    -.0679    -.3560    -.3720  
 .300    .1516    .0480    -.0242    -.0159    -.1837  
 .520    -.0041    -.0387    -.0093    .0814    .1207  
 .685    -.4165    -.0678    -.1564    .1198    .2029  
 .775    -.3597    -.1164    -.0105    .0602    .1489  
 .900    -.1654    -.0557    .0216    .0420    .0043    -.2813

ALPHA ( 3 ) = 3.851    BETA ( 1 ) = -3.904    MACH = 1.3941    Q = 600.12    P = 441.12    RN/L = 2.9157

## SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .6230    .5285    .4938    .4592    .4516  
 .025    .3756    .3588    .3005    .3093    .2958  
 .050    .4178    .3642    .3013    .3058    .3059  
 .150    .3453    .2687    .2457    .2497    .2420  
 .300    .2356    .1982    .1680    .2350    .2372  
 .520    .0908    .0825    .1562    .2108    .1806  
 .685    -.4083    .0213    -.1713    .2884    .2537  
 .775    -.3519    -.0178    .1057    .1849    .1982  
 .900    -.0538    .0600    .1443    .1583    .0843    -.2984

ALPHA ( 3 ) = 3.949    BETA ( 2 ) = .141    MACH = 1.3941    Q = 600.12    P = 441.12    RN/L = 2.9157

## SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .6625    .5979    .5339    .4706    .3689  
 .025    .1664    .0629    -.0534    -.0650    -.1333  
 .050    .3289    .2556    -.0344    -.0603    -.0867  
 .150    .3266    .1682    .1076    .1038    .0960  
 .300    .1687    .0885    .0630    .0931    .0772  
 .520    .0163    -.0003    .0590    .1529    .1146  
 .685    -.4096    -.0335    .0813    .2051    .2397  
 .775    -.2317    -.0732    .0322    .1192    .1488  
 .900    -.1350    .0227    .0590    .0734    .0182    -.3132

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV13)

ALPHA ( 3 ) = 3.862 BETA ( 3 ) = 4.219 MACH = 1.394 Q = 600.12 P = 441.12 RN/L = 2.9157

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5846	.5412	.4578	.3716	.3025
.025	-.1033	-.1623	-.4407	-.4917	-.5460
.050	-.0149	-.1454	-.4285	-.4763	-.5043
.150	-.1396	-.0341	-.1064	-.3758	-.3938
.300	.0979	-.0132	-.0796	-.0686	-.1269
.520	-.0743	-.0973	-.0762	.0181	.0396
.685	-.3637	-.1281	-.0023	.0943	.1262
.775	-.3407	-.1658	-.0012	.0183	.2419
.900		-.2092	-.0297	.0853	.2469
			-.1012	-.0104	-.3148

ALPHA ( 4 ) = 7.881 BETA ( 1 ) = -3.904 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5931	.4880	.4278	.3767	.3699
.025	.2478	.2862	.2352	.2449	.2262
.050	.3869	.3054	.2359	.2385	.2422
.150	.2838	.2153	.1820	.1879	.1819
.300	.1513	.1255	.1155	.1689	.1798
.520	.0389	.0385	.0991	.1554	.1254
.685	-.4200	-.0033	.0958	.2342	.2010
.775	-.3866	-.0381	.1314	.1449	.2393
.900		-.0929	.0164	.1062	.2462
				.0597	-.3201

ALPHA ( 4 ) = 7.933 BETA ( 2 ) = .128 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6899	.5224	.4413	.3744	.3185
.025	.1881	.0272	-.0834	-.1045	-.1613
.050	.3489	.2054	-.0820	-.1143	-.1183
.150	.2947	.1121	.0558	.0428	.0374
.300	.1112	.0328	-.0009	.0331	.0191
.520	-.0424	-.0555	-.0061	.0950	.0584
.685	-.4323	-.0765	-.1717	.1165	.1359
.775	-.3295	-.1118	-.0153	.0591	.2667
.900		-.1733	-.0674	.0202	-.2871
				-.0120	-.3283

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV13)

ALPHA ( 4 ) = 7.934 BETA ( 3 ) = 4.214 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9150

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## DEPENDENT VARIABLE CP

X/CV  
 .000 .5467 .5081 .3861 .2905 .2473  
 .025 .0991 .1534 .3810 .4612 .5440  
 .050 .1495 .1273 .3896 .4660 .4990  
 .150 .2379 .0071 .1666 .3037 .3853  
 .300 .0441 .0558 .1339 .1199 .1110  
 .520 .1179 .1430 .1085 .0216 .0294  
 .685 .3811 .1792 .1742 .0405 .0396 .2756  
 .775 .3437 .2059 .1005 .0477 .0366 .0185 .2906  
 .900 .2407 .1459 .0786 .0556 .0706 .3353

ALPHA ( 5 ) = 11.884 BETA ( 1 ) = -3.887 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## DEPENDENT VARIABLE CP

X/CV  
 .000 .6461 .4535 .3590 .3001 .2924  
 .025 .3526 .2594 .1837 .1844 .1685  
 .050 .4163 .2700 .1811 .1763 .1780  
 .150 .2606 .1621 .1246 .1270 .1223  
 .300 .0806 .0558 .0597 .1061 .1202  
 .520 .0378 .0205 .0480 .1187 .0959  
 .685 .4273 .0236 .1786 .1989 .1628 .2574  
 .775 .3775 .0558 .0478 .0990 .1272 .2630  
 .900 .1147 .0040 .0535 .0682 .0412 .3221

ALPHA ( 5 ) = 11.891 BETA ( 2 ) = .152 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## DEPENDENT VARIABLE CP

X/CV  
 .000 .6757 .4807 .3783 .3044 .2482  
 .025 .1701 .0046 .1148 .1324 .1878  
 .050 .3309 .1755 .1207 .1475 .1518  
 .150 .2818 .0826 .0093 .0002 .0130  
 .300 .0848 .0016 .0439 .0135 .0299  
 .520 .0792 .0956 .0575 .0452 .0116  
 .685 .4457 .1129 .1789 .0700 .0795 .2908  
 .775 .3555 .1426 .0547 .0026 .0112 .0449 .3089  
 .900 .1992 .1028 .0406 .0232 .0399 .3430

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV13)

ALPHA ( 5 ) = 11.887 BETA ( 3 ) = 4.229 MACH = 1.3946 Q = 599.92 P = 440.65 RN/L = 2.9185

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6166	.4663	.3108	.2086	.1763		
.000	.1085	-.1580	-.3931	-.4587	-.5229		
.025	.1668	-.1437	-.4050	-.4618	-.5067		
.050	.2242	-.0398	-.1986	-.2984	-.3733		
.100	.0436	-.0811	-.1591	-.1741	-.1805		
.200	-.1473	-.1701	-.1382	-.0774	-.0588		
.300	-.4120	-.2111	-.1888	-.0746	-.0223		
.400	-.3598	-.2301	-.1337	-.0941	-.0822		
.500	-.2756	-.1729	-.1249	-.1052	-.1054		

ALPHA ( 6 ) = 15.888 BETA ( 1 ) = -3.863 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7600	.5143	.3287	.2411	.2272		
.000	-.2008	.1291	.1385	.1366	.1205		
.025	-.0475	.2589	.1419	.1309	.1281		
.050	.2263	.1115	.0823	.0835	.0763		
.100	-.0076	-.0192	.0180	.0945	.0558		
.200	-.1036	-.1098	-.0136	.0904	.0682		
.300	-.4237	-.0434	-.2026	.1715	-.2729		
.400	-.3583	-.0716	.0372	.0778	-.2775		
.500	-.1180	-.0018	.0415	.0483	-.3510		

ALPHA ( 6 ) = 15.865 BETA ( 2 ) = .152 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6921	.4931	.3298	.2398	.1839		
.000	.1742	-.0232	-.1473	-.1644	-.2114		
.025	.3121	.1514	-.1549	-.1753	-.1700		
.050	.2721	.0619	-.0283	-.0371	-.0457		
.100	.0634	-.0363	-.0749	-.0538	-.0652		
.200	-.1187	-.0284	-.0939	.0032	-.0268		
.300	-.4522	-.1360	-.0440	.0294	-.3136		
.400	-.2730	-.1654	-.0800	-.0281	-.3314		
.500	-.2178	-.1230	-.0709	-.0666	-.3703		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV13)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 6 ) = 15.903 BETA ( 3 ) = 4.263 MACH = 1.3935 Q = 600.21 P = 441.59 RN/L = 2.9216

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7585	.5285	.2842	.1556	.1274
.025	.1295	-.1631	-.3710	-.4574	-.5124
.050	.2579	-.1185	-.3923	-.4626	-.5126
.100	.2837	.0070	-.2345	-.2777	-.3636
.150	.0722	-.0792	-.1630	-.1867	-.2125
.200	-.1235	-.1811	-.1625	-.1087	-.0795
.250	-.4535	-.2031	-.0937	-.0535	-.3198
.300	-.3751	-.2202	-.2010	-.1015	-.3436
			-.1456	-.1079	-.0581
			-.1894	-.1393	-.1154
				-.1229	-.3786

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV14) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 50. FT. XMRP = 1076.6800 IN. X0  
LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
SREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDBRK = 35.000  
BDFLAP = .000 L-ELVN = .000  
R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -4.010 BETA ( 1 ) = -3.884 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

SECTION 1 ( 1 ) VERTICAL

Z/EV .1590 .3170 .4590 .5020 .6970 .8390 .9250  
X/CV .000 .7620 .6245 .6051 .4172 .6203 .5949  
.025 .5923 .4540 .4347 .4377  
.050 .5971 .4559 .4279 .4306  
.150 .4925 .3507 .3369 .3820 .3542  
.300 .3239 .2753 .2539 .3573 .2758  
.520 .1581 .1258 .3064 .2839 .2419  
.655 .4054 .0649 .3024 .3831 .2778  
.775 .3290 .0347 .1739 .2632 .2189 .2763  
.900 .3290 .0347 .1739 .2632 .2189 .2763

DEPENDENT VARIABLE CP

ALPHA ( 1 ) = -3.944 BETA ( 2 ) = .148 MACH = 1.2452

SECTION 1 ( 2 ) VERTICAL

Z/EV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV .000 .9089 .6863 .6604 .6273 .5678  
.025 .2837 .0951 .0358 .0558 .1198  
.050 .4402 .2949 .0141 .0306 .0678  
.150 .3754 .2123 .1626 .1664 .1626  
.300 .2171 .1425 .1305 .1968 .2024  
.520 .0564 .0332 .1778 .1987 .1771  
.655 .4429 .0612 .1471 .2156 .3242 .2863  
.775 .3505 .0620 .0744 .1809 .1612 .2784  
.900 .1114 .0215 .0991 .1117 .0306 .2956

DEPENDENT VARIABLE CP

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TABULATED PRESSURE DATA - 0A14B ( AMES 11-073-1 )

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AMES 11-073(0A14B) - 140A/B/C/R ORB VERTICAL

(XEBV14)

ALPHA ( 1 ) = -.4009 BETA ( 3 ) = 4.237 MACH = 1.2452 Q = 599.70 P = 552.51 RN/L = 3.0159

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7462 .6165 .5690 .4966 .4381  
 .025 .0691 -.1651 -.4627 -.5669 -.6222  
 .050 .1046 -.1551 -.4646 -.5804 -.5832  
 .100 .2013 .0005 -.1869 -.2593 -.4982  
 .200 .1415 .0209 -.0390 -.0395 -.0313  
 .300 -.0243 -.0556 .0379 .0744 .1067  
 .400 -.4818 -.0959 -.1814 .1323 .1689  
 .500 -.3811 -.1333 -.0186 .0991 .0780  
 .600 -.1356 -.0757 .0058 .0374 -.0651  
 .700 .900

ALPHA ( 2 ) = .205 BETA ( 1 ) = -3.866 MACH = 1.2472

RN/L = 3.0212

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1520 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6326 .5471 .5151 .5199 .5065  
 .025 .5016 .3779 .3274 .3376 .3514  
 .050 .5191 .3821 .3206 .3310 .3484  
 .100 .4077 .2819 .2545 .2789 .2663  
 .200 .2540 .1956 .1946 .2988 .2202  
 .300 .0653 .0880 .1975 .2129 .1820  
 .400 -.4649 -.0220 .1750 .2536 .2946  
 .500 -.3339 -.0339 .1050 .2022 .1769  
 .600 -.0717 .0561 .1319 .1279 -.0052  
 .700 .900

ALPHA ( 2 ) = .220 BETA ( 2 ) = .185 MACH = 1.2472

RN/L = 3.0212

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7483 .6176 .5786 .5315 .4485  
 .025 .1983 .0201 -.1028 -.1172 -.1932  
 .050 .3725 .2305 -.0516 -.0959 -.1297  
 .100 .3159 .1461 .0970 .0948 .0868  
 .200 .1601 .0794 .0676 .0918 .1275  
 .300 .0041 -.0254 .0960 .1290 .1061  
 .400 -.4805 -.0743 .0671 .1531 .2256  
 .500 -.3376 .1229 .0045 .1117 .1121  
 .600 .900



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV14)

ALPHA ( 2 ) = .215 BETA ( 3 ) = 4.264 MACH = 1.2472 Q = 601.31 P = 552.29 RN/L = 3.0212

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6691 .5450 .4849 .4067 .3272  
 .025 -.0315 -.2109 -.5229 -.5861 -.6489  
 .050 .0069 -.2038 -.5248 -.5978 -.6030  
 .150 .1257 -.0819 -.1650 -.3186 -.5050  
 .300 .0859 -.0239 -.0933 -.1027 -.0886  
 .520 -.0786 -.1163 -.0425 .0174 .0405  
 .685 -.5056 -.1532 -.1742 .0875 .1045  
 .775 -.3792 -.1896 -.0832 -.0196 .0202  
 .900 -.2545 -.1329 -.0473 -.0343 .0389

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -3.872 MACH = 1.2473

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6255 .4938 .4464 .4293 .4198  
 .025 .3854 .3020 .2526 .2633 .2651  
 .050 .4190 .3155 .2502 .2585 .2675  
 .150 .3240 .2213 .1881 .1985 .2132  
 .300 .1922 .1309 .1300 .2227 .1702  
 .520 .0295 .0109 .1224 .1506 .1212  
 .685 -.5130 -.0644 -.2097 .2136 .3233  
 .775 -.3397 -.0905 .0434 .1450 .3246  
 .900 -.1267 -.0053 .0819 .0809 -.0257

ALPHA ( 3 ) = 3.903 BETA ( 2 ) = .184 MACH = 1.2473

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7053 .5543 .4990 .4374 .3449  
 .025 .1613 -.0135 -.1400 -.1523 -.2271  
 .050 .3350 .1825 -.1078 -.1367 -.1790  
 .150 .2763 .0972 .0365 .0375 .0307  
 .300 .1655 .0191 .0103 .0314 .0545  
 .520 -.0535 -.0795 .0333 .0776 .0495  
 .685 -.5058 -.1189 -.1850 .0996 .1677  
 .775 -.3492 -.1504 -.0460 .0539 .3510  
 .900 -.2203 -.0973 -.0108 -.0006 -.3529

RN/L = 3.0266

P = 551.82

Q = 600.93

MACH = 1.2473

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV14)

ALPHA ( 3 ) = 3.907 BETA ( 3 ) = 4.256 MACH = 1.2473 Q = 600.93 P = 551.82 R = 3.0266

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6003	.4941	.4124	.3257	.2274	
.025	-.0771	-.2411	-.5401	-.5887	-.5887	-.6850	
.050	.0156	-.2280	-.5311	-.5898	-.5898	-.6246	
.100	.1041	-.2394	-.5193	-.5635	-.5635	-.4978	
.200	.0404	-.0670	-.1331	-.1528	-.1528	-.1351	
.300	-.1502	-.1677	-.1272	-.0260	-.0260	-.0176	
.400	-.4196	-.2065	-.1848	-.0874	-.0408	-.3356	
.500	-.3555	-.2403	-.1335	-.0677	-.0452	-.0119	-.3663
.600	-.1755	-.2590	-.0957	-.0827	-.1332	-.3777	

ALPHA ( 4 ) = 7.853 BETA ( 1 ) = -3.870 MACH = 1.2469 Q = 600.88 P = 552.06 R = 3.0236

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6425	.4555	.3747	.3368	.3249	
.025	.3325	.2375	.1801	.1932	.1932	.1931	
.050	.3844	.2577	.1809	.1899	.1899	.1991	
.100	.2693	.1513	.1280	.1351	.1351	.1482	
.200	.1149	.0641	.0742	.1500	.1500	.1208	
.300	-.0185	-.0304	.0605	.0892	.0892	.0671	
.400	-.5179	-.0905	.1991	.0129	.1685	.1533	-.3392
.500	-.3323	-.1229	-.0020	.0617	.0835	.0885	-.3380
.600	-.1752	-.0549	.0328	.0368	-.0500	-.3770	

ALPHA ( 2 ) = 0.959 BETA ( 2 ) = .181 MACH = 1.2469 Q = 600.88 P = 552.06 R = 3.0236

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6818	.4866	.4143	.3439	.2549	
.025	.1767	-.0435	-.1741	-.1910	-.1910	-.2554	
.050	.3182	.1481	-.1526	-.1843	-.1843	-.2054	
.100	.2403	.0473	-.0161	-.0187	-.0187	-.0269	
.200	.0484	-.0348	-.0459	-.0277	-.0277	-.0202	
.300	-.1117	-.1265	-.0310	.0268	.0268	-.0020	
.400	-.5219	-.1595	-.1936	-.0478	.0534	.1001	-.3693
.500	-.3554	-.1976	-.0901	-.0241	-.0009	.0232	-.3702
.600	-.1567	-.1404	-.0561	-.0429	-.1141	-.3788	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.950 BETA ( 3 ) = 4.251 MACH = 1.2469 Q = 600.83 P = 552.05 RN/L = 3.0236  
 (XEBV14)

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6326	.4508	.3373	.2440	.1546		
.025	.0633	-.2418	-.4853	-.5906	-.6716		
.050	.1191	-.2157	-.4952	-.5797	-.6411		
.150	.1648	-.0807	-.2797	-.3770	-.4429		
.300	-.0249	.1215	-.1582	-.1929	-.1855		
.500	-.1918	.2190	-.1760	-.0642	-.0595		
.655	-.4447	.2515	-.1953	-.0158	-.0126		
.775	-.3355	-.2839	-.1762	-.0927	-.0580		
.900		-.2845	-.2180	-.1437	-.1274		

ALPHA ( 5 ) = 11.929 BETA ( 1 ) = -3.853 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6524	.4272	.3118	.2527	.2426		
.025	.2761	.1832	.1261	.1374	.1305		
.050	.3478	.2072	.1253	.1308	.1388		
.150	.2145	.1051	.0703	.0805	.0893		
.300	.0393	.0036	.0200	.0926	.0767		
.500	-.0791	-.0798	.0188	.0399	.0232		
.655	-.5231	-.0959	-.2055	.1334	.1155		
.775	-.3324	-.1347	-.0257	.0411	.0494		
.900		-.2022	-.0811	.0022	-.0675		

ALPHA ( 5 ) = 11.937 BETA ( 2 ) = .177 MACH = 1.2466 Q = 600.83 P = 552.29 RN/L = 3.0248

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6623	.4461	.3446	.2657	.2652		
.025	.1590	-.0659	-.2004	-.2175	-.2755		
.050	.3026	.1195	-.1845	-.2231	-.2292		
.150	.2238	.0118	-.0570	-.0656	-.0727		
.300	.0208	-.0702	-.0907	-.0736	-.0720		
.500	-.1463	-.1570	-.0850	-.0151	-.0461		
.655	-.5276	-.1950	-.2012	.0100	.0445		
.775	-.3751	-.2222	-.1242	-.0459	-.0187		
.900		-.2813	-.1726	-.0833	-.1338		

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL

(XEBV14)

ALP-A ( 5 ) = 11.932 BETA ( 3 ) = 4.267 MACH = 1.2466 O = 600.83 P = 552.29 RN/L = 3.0248

SECTION: VERTICAL

DEPENDENT VARIABLE CP

Z/5V	.1590	.3:70	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6548	.4302		.2734		.1666	.0954
.025	.6333	-.2429		-.4741		-.5672	-.6738
.050	.1179	-.2240		-.4895		-.5665	-.6488
.150	.1605	-.1016		-.3078		-.3329	-.4003
.300	-.0370	-.1499		-.1828		-.2467	-.2583
.520	-.2178	-.2472		-.2027		-.1250	-.0923
.725	-.4726	-.2777	-.2069	-.1463	-.0681	-.0687	-.3741
.875	-.3333	-.3002	-.2021	-.1494	-.1366	-.1025	-.3953
.900		-.3134	-.2479	-.1828	-.1657	-.1927	-.3855

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV15) ( 13 AUG 75 )

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

## REFERENCE DATA

SIZE = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 CREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 ZREF = 935.0890 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 35.000  
 BOFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.072 BETA ( 1 ) = -3.851 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890  
 SECTION ( 1 ) VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6953 .5469 .5352 .3358 .3756 .5180  
 .025 .5253 .3575 .3358 .3756 .3494  
 .050 .5125 .3581 .3296 .3675 .3470  
 .100 .3785 .2789 .2560 .3040 .2618  
 .150 .2276 .1933 .1925 .2638 .1819  
 .200 .0559 .0130 .2392 .1951 .1493  
 .250 .4752 .0716 .2173 .2045 .2554 .4200  
 .300 .3129 .0548 .1068 .1673 .0754 .4048  
 .350 .0252 .0605 .0675 .0733 .1393 .3858

DEPENDENT VARIABLE CP

ALPHA ( 2 ) = -4.070 BETA ( 2 ) = .189 MACH = 1.0992 Q = 599.97 P = 709.32 RN/L = 3.1890  
 SECTION ( 2 ) VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .7477 .6162 .6113 .5771 .5105  
 .025 .2538 .0200 .1367 .1675 .1973  
 .050 .3725 .1970 .0005 .0572 .1263  
 .100 .2807 .1231 .0820 .0901 .1325  
 .150 .1188 .0591 .0517 .1489 .0949  
 .200 .0323 .0766 .1375 .1202 .1063  
 .250 .4615 .1474 .0853 .1188 .2229 .4291  
 .300 .3170 .1576 .0834 .1057 .0349 .4127  
 .350 .0252 .0605 .0675 .0733 .1393 .3858

DEPENDENT VARIABLE CP

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL

(XEBV15)

ALPHA 1 = 0.000 BETA 1 (3) = 4.293 MACH = 1.0992 O = 599.97 P = 709.32 RN/L = 3.1890

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

ALPHA 2 = 0.000 BETA 2 (1) = -3.863 MACH = 1.0994  
 Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

SECTION 2 INVERTICAL

DEPENDENT VARIABLE CP

Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

ALPHA 2 = 0.000 BETA 2 (2) = 1.83 MACH = 1.0994  
 Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

SECTION 3 INVERTICAL

DEPENDENT VARIABLE CP

Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

ALPHA 2 = 0.000 BETA 2 (2) = 1.83 MACH = 1.0994  
 Z/B 1590 1670 1750 1830 1910 1990 2070 2150 2230 2310 2390 2470 2550 2630 2710 2790 2870 2950 3030 3110 3190 3270 3350 3430 3510 3590 3670 3750 3830 3910 3990 4070 4150 4230 4310 4390 4470 4550 4630 4710 4790 4870 4950 5030 5110 5190 5270 5350 5430 5510 5590 5670 5750 5830 5910 5990 6070 6150 6230 6310 6390 6470 6550 6630 6710 6790 6870 6950 7030 7110 7190 7270 7350 7430 7510 7590 7670 7750 7830 7910 7990 8070 8150 8230 8310 8390 8470 8550 8630 8710 8790 8870 8950 9030 9110 9190 9270 9350 9430 9510 9590 9670 9750 9830 9910 10000

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBV15)

ALPHA ( 2 ) = -.007 BETA ( 3 ) = 4.260 MACH = 1.0994 Q = 599.94 P = 709.08 RN/L = 3.1892

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6174	.4765	.4136	.3365	.2516		
.000	-.0713	-.3640	-.5814	-.7169	-.7699		
.025	-.0467	-.2921	-.5837	-.6730	-.7446		
.050	.0751	-.1260	-.3839	-.3775	-.5039		
.100	.0254	-.1378	-.1862	-.1897	-.1988		
.150	-.1907	-.2241	-.0815	-.0855	-.0589		
.200	-.5157	-.2755	-.1997	-.1114	-.0366		
.250	-.3774	-.2921	-.1790	-.1026	-.0656		
.300	-.2134	-.2134	-.1850	-.1309	-.1086		

ALPHA ( 3 ) = 3.931 BETA ( 1 ) = -3.870 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6004	.4272 <td>.3710</td> <td>.3650</td> <td>.3437</td> <td></td> <td></td>	.3710	.3650	.3437		
.000	.3463	.2107	.1737	.1939	.2214		
.025	.3738	.2297	.1680	.1863	.2176		
.050	.2532	.1314	.1040	.1475	.1359		
.100	.1008	.0410	.0373	.1475	.0526		
.150	-.0680	-.0976	.0496	.0579	.0342		
.200	-.5531	-.1805	-.1862	.0986	.1343		
.250	-.3466	-.1857	-.0442	.0684	.4137		
.300	-.1378	-.1378	-.0478	-.0243	-.1769		

ALPHA ( 3 ) = 3.932 BETA ( 2 ) = .189 MACH = 1.0960 Q = 598.54 P = 711.89 RN/L = 3.1895

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6682	.4937	.4407	.3891	.2971		
.000	.1425	-.1169	-.2441	-.2686	-.3298		
.025	.2812	.0959	-.1623	-.2410	-.2539		
.050	.1929	.0057	-.0438	-.0529	-.0399		
.100	.0145	-.0546	-.0690	.0090	-.0098		
.150	-.1433	-.1692	-.0203	-.0217	-.0237		
.200	-.5102	-.2364	-.1792	.0106	.0867		
.250	-.3496	-.2669	-.1321	-.0238	-.0376		
.300	-.1804	-.1804	-.1206	-.0752	-.2219		

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV:5)

ALPHA ( 3 ) = 3.935 BETA ( 3 ) = 4.249 MACH = 1.0960 Q = 599.54 P = 711.89 RN/L = 3.1895

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

0	.5763	.4202	.3322	.2442	.1540
.25	-1.180	-3844	-6193	-7290	-8175
.500	-0.022	-3418	-6262	-6919	-7981
.750	.0301	-1890	-4170	-4103	-5105
1.000	-0.047	-1859	-2166	-2621	-2457
1.250	-0.2646	-2910	-1657	-1426	-1006
1.500	-0.4540	-3245	-1897	-0795	-0843
1.750	-0.3592	-3100	-2251	-1228	-1492
2.000	-0.2495	-3100	-2217	-1592	-2416

ALPHA ( 4 ) = 7.884 BETA ( 1 ) = -3.865 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1888

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

0.000	.5911	.3837	.3022	.2782	.2616
.025	.3276	.1534	.0887	.1401	.1657
.050	.3479	.1676	.0922	.1315	.1500
.075	.1928	.0637	.0351	.0792	.0845
.100	.0219	-0.0324	-0.0050	.1097	.0250
.125	-1.1214	-1.1155	.0078	.0462	.0391
.150	-1.5867	-1.1943	.0152	.1213	.3990
.175	-1.7602	-2.038	-0.023	.0628	.0217
.200	-1.1536	-1.0474	.0038	-0.0045	-1.597

ALPHA ( 5 ) = 7.565 BETA ( 2 ) = .179 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1888

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

0.000	.5400	.4378	.3611	.2960	.1943
.025	.1324	-1.1538	-2936	-3155	-3764
.050	.2593	.0487	-2300	-3126	-3177
.075	.1556	-0.455	-1.036	-1.141	-1.138
.100	.0421	-1.270	-1.335	-0.806	-0.597
.125	-2.017	-2.269	-0.936	-0.746	-0.768
.150	-1.5197	-2.828	-1.655	.0338	.0296
.175	-1.3679	-3.027	-1.802	-0.779	-4.637
.200	-1.1955	-1.955	-1.525	-1.112	-2.338



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V15)

ALPHA ( 4 ) = 7.966 BETA ( 3 ) = 4.242 MACH = 1.0986 Q = 599.29 P = 709.30 RN/L = 3.1886

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5952 .3748 .2612 .1662 .0620  
 .025 -.0457 -.3310 -.6169 -.7547 -.8652  
 .050 .0124 -.3296 -.6429 -.7191 -.8333  
 .150 .0611 -.1992 -.4207 -.4300 -.4495  
 .300 -.1260 -.2331 -.2593 -.3260 -.2983  
 .520 -.3088 -.3306 -.2522 -.1691 -.1238  
 .685 -.4889 -.3562 -.2422 -.1105 -.4109  
 .775 -.3820 -.3536 -.2768 -.2114 -.1670 -.3949  
 .900 -.2791 -.2596 -.2142 -.2154 -.2664 -.3577

ALPHA ( 5 ) = 11.925 BETA ( 1 ) = -3.850 MACH = 1.0981

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6376 .3581 .2299 .1779 .1701  
 .025 .1889 .0871 .0537 .0818 .1246  
 .050 .2782 .1180 .0501 .0727 .1257  
 .150 .1422 .0111 -.0015 .0242 .0833  
 .300 -.0514 -.0772 -.0462 .0934 .0166  
 .520 -.1606 -.1568 -.0274 .0440 .0274  
 .685 -.5739 -.2079 -.2005 .0770 .1122 -.3811  
 .775 -.3827 -.2378 -.1140 .0195 .0661 .0323 -.3899  
 .900 -.2072 -.2073 .0280 -.0029 -.1574 -.3866

ALPHA ( 5 ) = 11.933 BETA ( 2 ) = .177 MACH = 1.0981

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6205 .3912 .2906 .2052 .0939  
 .025 .0914 -.1870 -.3318 -.3481 -.4140  
 .050 .2291 .0120 -.2800 -.3524 -.3696  
 .150 .1240 -.0862 -.1613 -.1715 -.1725  
 .300 -.0767 .1713 .1863 -.1556 -.1133  
 .520 -.2524 .2685 .1445 .1208 .1128  
 .685 -.5244 .3153 .1853 -.0785 .0240 .4706  
 .775 -.3917 .3933 .2320 .1585 .1174 .1039 .4539  
 .900 -.2000 .2000 .1283 .1364 .2465 .4283

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV15)

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.259 MACH = 1.0981 Q = 598.93 P = 709.53 RN/L = 3.1856

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6188	.3558	.1928	.0692	-.0496
.025	-.0235	-.4032	-.6383	-.7098	-.8212
.050	.0564	-.3479	-.6675	-.7196	-.7992
.100	.0568	-.2102	-.4575	-.4789	-.5812
.200	-.1591	-.2705	-.3093	-.4271	-.3961
.300	-.3474	-.3711	-.2917	-.2109	-.1812
.400	-.5430	-.3835	-.2641	-.1295	-.4140
.500	-.3875	-.3787	-.2565	-.1956	-.3949
.600		-.2880	-.2513	-.2734	-.3558
.700					
.800					
.900					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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1XEBV16) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

## REFERENCE DATA

SREF = 2696.0000 SO.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 35.000  
 SOFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.023 BETA ( 1 ) = -3.852 MACH = .90217 Q = 601.77 P = 1056.2 RV/L = 3.5811

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4864	.3570		.3834		.4451	.3881
.025	.3557	.2260		.2940		.3533	.2990
.050	.3403	.2250		.2711		.3271	.2800
.150	.1935	.1280		.1954		.2287	.1691
.300	.0576	.0392		.1483		.1630	.0781
.520	-.1509	-.0784		.1602		.0779	-.0007
.685	-.2612	.0186	-.2239	.1327	.1167	.0629	-.1829
.775	-.1731	-.0184	.0554	.0436	.0256	-.0976	-.1722
.900		-.0888	-.0509	-.0789	-.1174	-.1882	-.1388

ALPHA ( 1 ) = -3.925 BETA ( 2 ) = .188 MACH = .90217 Q = 601.77 P = 1056.2 RV/L = 3.5811

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5553	.4519		.5162		.5223	.4422
.025	.0322	-.2704		-.3067		-.1921	-.3111
.050	.1565	-.0131		-.0123		-.0026	-.0936
.150	.0507	-.0720		-.0135		.0315	.0163
.300	-.1011	-.1240		.0102		.0491	-.0213
.520	-.2707	-.1791		.0763		.0093	-.0415
.685	-.2991	.0344	-.2276	.0533	.0396	.0365	-.2268
.775	-.1898	-.0670	-.0125	-.0227	-.0329	-.1327	-.2247
.900		-.1233	-.1045	-.1329	-.1629	-.2285	-.2007

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV16)

ALPHA ( 1 ) = -3.933 BETA ( 3 ) = 4.285 MACH = .90217 Q = 601.77 P = 1056.2 RV/L = 3.5811

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4713	.3365	.3141	.2334	.1787
.025	-.2108	-.6873	-.8861	-.4871	-.3823
.050	-.1218	-.6053	-.8733	-.4776	-.3693
.150	-.1428	-.3137	-.7546	-.4821	-.3417
.300	-.2412	-.3307	-.1353	-.4362	-.3234
.520	-.3886	-.4116	.0227	-.2177	-.3041
.685	-.3908	-.0784	-.2306	.0291	-.1094
.775	-.1725	-.0987	-.0725	-.0691	-.1021
.900	-.1606	-.1625	-.1635	-.1524	-.1487

ALPHA ( 2 ) = .017 BETA ( 1 ) = -3.871 MACH = .89983 Q = 599.69 P = 1058.1 RV/L = 3.5748

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4308	.2697	.2913	.3709	.3210
.025	.2888	.1623	.2647	.3189	.2642
.050	.2770	.1595	.2320	.2899	.2449
.150	.1382	.0751	.1667	.1990	.1411
.300	.0023	.0011	.1320	.1346	.0457
.520	-.1803	-.0918	.1382	.0470	-.0225
.685	-.2464	.0077	.1121	.0789	.0354
.775	-.1798	-.0243	.0387	-.0023	-.1036
.900	-.0935	-.0691	-.1047	-.1448	-.1200

ALPHA ( 2 ) = .043 BETA ( 2 ) = .183 MACH = .89983 Q = 599.69 P = 1058.1 RV/L = 3.5748

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5060	.3693	.4522	.4583	.3675
.025	-.0344	-.3363	-.3131	-.2018	-.2972
.050	.0874	-.0880	-.0228	-.0292	-.0998
.150	-.0223	-.1312	-.0306	.0114	-.0005
.300	.1668	-.1841	-.0021	.0209	-.0418
.520	-.2872	-.1900	.0627	-.0099	-.0530
.685	-.2692	-.0371	-.2059	.0114	.0038
.775	-.1641	-.0643	-.0284	-.0584	-.1944
.900	-.1302	-.1272	-.1524	-.1856	-.2266

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V16)

ALPHA ( 2 ) = .037 BETA ( 3 ) = 4.263 MACH = .89983 Q = 599.69 P = 1058.1 RN/L = 3.5748

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4146	.2696	.2247	.1554	.0852
.025	-.2892	-.7318	-.9339	-.4911	-.3864
.050	-.2005	-.6538	-.9294	-.4769	-.3716
.150	-.1875	-.3726	-.7953	-.4786	-.3382
.300	-.3060	-.3922	-.0878	-.4337	-.3220
.520	-.4569	-.3261	.0102	-.2154	-.3149
.685	-.5107	-.0714	-.2185	.0140	-.2433
.775	-.1970	-.0946	-.0793	-.0460	-.2207
.900		-.1567	-.1796	-.1888	-.1665
					-.1792

ALPHA ( 3 ) = 3.891 BETA ( 1 ) = -3.877 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3799	.2284	.2107	.2996	.2414
.025	.2259	.1142	.2548	.2984	.2455
.050	.2162	.1225	.2221	.2721	.2221
.150	.0854	.0470	.1583	.1870	.1185
.300	-.0258	-.0208	.1225	.1217	.0253
.520	-.1833	-.0381	.1293	.0257	-.0493
.685	-.2494	.0233	-.1809	.0558	.0015
.775	-.1762	-.0018	.0353	-.0177	-.1259
.900		-.0675	-.0722	-.1576	-.1663
					-.1494

ALPHA ( 3 ) = 4.016 BETA ( 2 ) = .188 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4793	.3245	.4004	.4095	.3083
.025	-.0932	-.3608	-.2819	-.1996	-.2799
.050	.0537	-.1185	-.0363	-.0327	-.0875
.150	-.0622	-.1464	-.0308	-.0002	.0170
.300	-.2025	-.1644	-.0099	.0081	-.0565
.520	-.2931	-.1696	.0479	-.0284	-.0575
.685	-.2342	-.0295	-.1786	-.0059	-.0201
.775	-.1715	-.0593	-.0298	-.0533	-.1687
.900		-.1232	-.1312	-.1552	-.1652
				-.2118	-.1401

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TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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(XE8V16)

AXES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 3 ) = 4.017 BETA ( 3 ) = 4.257 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5722

SECTION 1 VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3555 .2130 .1243 .0761 -.0129  
 .025 -.3095 -.7553 -.9246 -.5003 -.4318  
 .050 -.2245 -.7007 -.9257 -.4827 -.4130  
 .150 -.2051 -.4470 -.7879 -.4754 -.3686  
 .300 -.3622 -.4274 -.0387 -.4336 -.3758  
 .520 -.4769 -.1505 -.0143 -.2117 -.3629  
 .685 -.2651 -.0802 -.0468 -.0065 -.1329  
 .775 -.2005 -.1036 -.1254 -.0715 -.2651  
 .900 -.1521 -.1957 -.2264 -.1935 -.1674  
 -.1989

ALPHA ( 4 ) = 7.978 BETA ( 1 ) = -3.868 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION 1 VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3324 .1653 .1521 .2173 .1583  
 .025 .1621 .0922 .2260 .2647 .2176  
 .050 .1733 .0953 .1888 .2414 .1919  
 .150 .0381 .0711 .1393 .1580 .0890  
 .300 -.0744 -.0411 .1078 .0971 -.0003  
 .520 -.2127 -.0895 .1173 -.0083 -.0692  
 .685 -.2529 .0255 -.1822 .0419 -.0308  
 .775 -.1777 .0009 .0048 -.0318 -.1504  
 .900 -.0550 -.0741 -.1266 -.1696 -.1799  
 -.1551

ALPHA ( 4 ) = 7.924 BETA ( 2 ) = .191 MACH = .90107 Q = 600.53 P = 1056.6 RN/L = 3.5741

SECTION 1 VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4351 .2509 .2466 .3459 .2364  
 .025 .1332 .1372 .2859 -.1814 -.2602  
 .050 .0102 .1445 .10539 -.0001 -.0783  
 .150 .0321 .1778 .10404 -.0089 -.0321  
 .300 .2249 .1520 .10177 -.0027 -.0714  
 .520 .2032 .1621 .0428 -.0437 -.0779  
 .685 .2333 .0315 .0134 -.0446 -.1686  
 .775 .1249 .0512 .0295 -.0824 -.1615  
 .900 .1113 .1113 .1762 .2089 .1952  
 -.1305

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XE8V16)

ALPHA ( 4 ) = 7.921 BETA ( 3 ) = 4.257 MACH = .90107 Q = 608.53 P = 1056.6 RN/L = 3.5741

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3423	.1716		.0585		.0005	-.0918
.025	-.2472	-.7472		-.8752		-.4894	-.4698
.050	-.1582	-.7083		-.8201		-.4806	-.4397
.150	-.1850	-.4510		-.7922		-.4705	-.3805
.300	-.3517	-.4228		-.0866		-.4239	-.4000
.520	-.4474	-.1533		-.0206		-.1951	-.3339
.685	-.2383	-.0932	-.1807	-.0591	-.0350	-.1230	-.2386
.775	-.1755	-.1067	-.0882	-.1388	-.0998	-.1556	-.2136
.900		-.1637	-.1882	-.2446	-.2202	-.1756	-.1827

ALPHA ( 5 ) = 11.916 BETA ( 1 ) = -3.856 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3566	.1334		.0979		.1419	.0725
.025	-.0582	-.0318		.1782		.2438	.1981
.050	-.0418	.0016		.1580		.2223	.1707
.150	-.0651	-.0745		.1130		.1426	.0647
.300	-.1772	-.0951		.0879		.0850	-.0152
.520	-.2710	-.1175		.0699		-.0250	-.0852
.685	-.2757	.0217	-.2080	.0909	-.0390	-.0392	-.2231
.775	-.1874	-.0018	.0381	.0009	-.0354	-.1636	-.1961
.900		-.0595	-.0718	-.1264	-.1755	-.1897	-.1773

ALPHA ( 5 ) = 11.928 BETA ( 2 ) = .182 MACH = .90000 Q = 599.65 P = 1057.6 RN/L = 3.5745

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3846	.2244		.2980		.3022	.1968
.025	-.0638	-.3645		-.3173		-.1892	-.2573
.050	.0229	-.2025		-.0954		-.0006	-.0871
.150	-.0865	-.2366		-.0657		-.0315	-.0548
.300	-.2561	-.2608		-.0422		-.0139	-.0859
.520	-.3524	-.1752		-.0061		-.0562	-.0983
.685	-.2554	-.0550	-.2034	.0134	-.0306	-.0591	-.1993
.775	-.2044	-.0737	-.0477	-.0721	-.0964	-.1756	-.1639
.900		-.1327	-.1421	-.1800	-.2151	-.2019	-.1642

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XE8VIS)

ALPHA ( 5 ) = 11.917 BETA ( 3 ) = 4.273 MACH = .90000 Q = 599.65 P = 1057.6 Rm/L = 3.5745

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000							
.025	.3255	.1420		.0098		-.0951	-.2067
.050	-.1531	-.6453		-.9522		-.5303	-.5070
.075	-.0587	-.5090		-.9365		-.5210	-.4755
.100	-.1615	-.3970		-.6770		-.5206	-.4091
.125	-.3197	-.4082		-.1305		-.4776	-.4490
.150	-.4478	-.2484		-.0806		-.1620	-.3633
.175	-.6846	-.1307	-.2007	-.0632	-.0899	-.1142	-.2734
.200	-.2130	-.1374	-.1456	-.1583	-.1407	-.1542	-.2435
.225		-.1836	-.2341	-.2653	-.2480	-.1808	-.2111
.250							



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV17) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.9590 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPDRK = 35.000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .500

ALPHA ( 1 ) = -4.112 BETA ( 1 ) = -7.854 MACH = .59594 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.0274	-.2490		-.2190		.0543	.0187
.025	.4824	.4373		.5051		.4744	.4245
.050	.4325	.3370		.4474		.4358	.3747
.100	.2816	.2588		.3229		.3045	.2323
.150	.1461	.1378		.2403		.2117	.1219
.200	-.1090	.0441		.1211		.0910	.0019
.250	-.2179	.0488		.1265		.1066	-.1664
.300	-.1745	-.0057		.0174		.0366	-.1073
				-.1217		-.0742	-.0942
				-.1514		-.0589	

ALPHA ( 2 ) = -4.086 BETA ( 2 ) = -3.839 MACH = .59594

SECTION ( 2 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3548	.2469		.2718		.3936	.3054
.025	.3147	.2555		.3170		.3080	.2710
.050	.2632	.2303		.2701		.2779	.2520
.100	.1600	.1238		.1841		.1674	.1468
.150	.0425	.0337		.1222		.1249	.0650
.200	-.1765	-.0245		.0483		.0488	-.0036
.250	-.2261	-.0107		-.0658		.0493	-.1373
.300	-.1697	-.0526		-.0441		-.0126	-.0848
				-.2127		-.1116	-.0663
				-.1704		-.0605	

Q = 595.28 P = 2386.4 RN/L = 4.8216

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ALPHA ( 1 ) = -4.079 BETA ( 3 ) = .201 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216  
 AMES 11-073(0A148) -143A/B/C/R ORB VERTICAL (XEBV17)

SECTION 1: VERTICAL DEPENDENT VARIABLE CP

Z BV	.1582	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.5024	.4553	.5195	.4948	.4487	.3565	.2757
.025	-.0169	-.0244	-.0175	-.0127	-.0048	-.0227	-.0056
.050	.0986	-.0106	-.0074	.0056	.0062	.0181	-.0230
.150	.0280	-.0464	.0061	-.0105	-.0009	-.0389	-.1379
.300	-.0592	-.0853	-.0150	-.0090	-.0653	-.1075	-.0819
.450	-.2797	-.1077	.0030	-.0105	-.0009	-.0653	-.1075
.600	-.2244	-.0571	-.1697	-.0090	-.0653	-.1075	-.0819
.750	-.1711	-.0963	-.0994	-.0690	-.0653	-.1075	-.0819
.900	-.1171	-.2160	-.2520	-.2132	-.1718	-.1006	-.0819

ALPHA ( 4 ) = -4.098 BETA ( 4 ) = 4.270 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION 2: VERTICAL DEPENDENT VARIABLE CP

Z BV	.1582	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3374	.1921	.1772	.1104	.0944	.0973	.0944
.025	-.0275	-.0359	-.0395	-.0349	-.0373	-.0373	-.0373
.050	.0163	-.0439	-.0339	-.0478	-.0850	-.0850	-.0850
.150	.0103	-.0721	-.0320	-.0371	-.2699	-.2699	-.2699
.300	.0103	-.0323	-.0323	-.1964	-.1746	-.1746	-.1746
.450	-.0033	-.0323	-.0323	-.1024	-.1291	-.1291	-.1291
.600	-.0033	-.0323	-.0323	-.0995	-.2102	-.2102	-.2102
.750	-.0033	-.0323	-.0323	-.1312	-.1347	-.1347	-.1347
.900	-.0033	-.0323	-.0323	-.2314	-.1535	-.1438	-.1438

ALPHA ( 5 ) = -4.101 BETA ( 5 ) = 8.352 MACH = .59694 Q = 595.28 P = 2386.4 RN/L = 4.8216

SECTION 3: VERTICAL DEPENDENT VARIABLE CP

Z BV	.1582	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3374	.1921	.1772	.1104	.0944	.0973	.0944
.025	-.0275	-.0359	-.0395	-.0349	-.0373	-.0373	-.0373
.050	.0163	-.0439	-.0339	-.0478	-.0850	-.0850	-.0850
.150	.0103	-.0721	-.0320	-.0371	-.2699	-.2699	-.2699
.300	.0103	-.0323	-.0323	-.1964	-.1746	-.1746	-.1746
.450	-.0033	-.0323	-.0323	-.1024	-.1291	-.1291	-.1291
.600	-.0033	-.0323	-.0323	-.0995	-.2102	-.2102	-.2102
.750	-.0033	-.0323	-.0323	-.1312	-.1347	-.1347	-.1347
.900	-.0033	-.0323	-.0323	-.2314	-.1535	-.1438	-.1438

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ALPHA ( 2 ) = .094 BETA ( 1 ) = -7.892 MACH = .59642 0 = 594.20 P = 2386.3 RN/L = 4.8159  
(XEBV17)

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	-.0353	-.3289	-.3242	-.0571	-.0697	
.025	.4379	.3895	.4568	.4568	.4300	.3733	
.050	.3595	.3440	.4068	.2925	.3930	.3371	
.150	.2419	.2208	.2925	.2172	.2769	.1981	
.300	.1136	.1087	.0949	.0949	.1863	.0881	
.520	-.1289	.0372	.0949	.0949	.0714	-.0227	
.685	-.2320	.0393	-.1600	.1058	.0901	-.0468	
.775	-.1759	-.0068	.0053	.0057	.0190	-.1893	
.900		-.1454	-.1674	-.1289	-.0855	-.0731	-.1185

ALPHA ( 2 ) = .094 BETA ( 2 ) = -3.858 MACH = .59642 0 = 594.20 P = 2386.3 RN/L = 4.8159

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.3146	.1674	.1801	.3081	.2256	
.025	.2718	.2079	.2863	.2769	.2769	.2458	
.050	.2445	.1912	.2454	.2533	.2533	.2234	
.150	.1252	.0556	.1590	.1602	.1602	.1146	
.300	.0020	.0072	.0955	.0955	.1009	.0393	
.520	-.1957	-.0380	.0255	.0255	.0299	-.0284	
.685	-.2336	-.0187	.0460	.0375	.0324	-.1484	
.775	-.1729	-.0577	-.0414	-.0304	-.0325	-.0846	
.900		-.1822	-.2090	-.1783	-.1230	-.0679	-.0674

ALPHA ( 2 ) = .071 BETA ( 3 ) = .198 MACH = .59642 0 = 594.20 P = 2386.3 RN/L = 4.8159

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4550	.4091	.4546	.4307	.3792	
.025	.0540	.3190	.2604	.2604	.1299	.3340	
.050	.0514	.0463	.0330	.0330	.0273	.0370	
.150	.0179	.0757	.0216	.0216	.0059	.0097	
.300	.1038	.1052	.0138	.0138	.0076	.0384	
.520	.2511	.1059	.0330	.0330	.0230	.0529	
.685	.2309	.0654	.0112	.0112	.0061	.1256	
.775	.1710	.0254	-.0991	.0827	-.0574	.0907	
.900		-.2557	-.2213	-.1637	-.0931	-.0729	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV17)

ALPHA ( 2 ) = .068 BETA ( 4 ) = 4.249 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.9159

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z BT .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2815	.1237	.0948	.0341	-.0105	
.005	-.2582	-.0320	-.16460	-.4349	-1.0001	
.010	-.3200	-.4829	-.5590	-.4000	-.8155	
.015	-.2468	-.2979	-.3701	-.3478	-.2733	
.020	-.2282	-.2561	-.1728	-.2300	-.1829	
.025	-.2087	-.1771	-.11059	-.1109	-.1137	
.030	-.1891	-.1560	-.0889	-.1211	-.1989	
.035	-.1695	-.1363	-.11623	-.1413	-.1630	
.040	-.1499	-.1167	-.13606	-.1354	-.1230	

ALPHA ( 2 ) = .068 BETA ( 5 ) = 3.308 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.9159

SECTION 2: VERTICAL

DEPENDENT VARIABLE CP

Z BT .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2815	.1237	.0948	.0341	-.0105	
.005	-.2582	-.0320	-.16460	-.4349	-1.0001	
.010	-.3200	-.4829	-.5590	-.4000	-.8155	
.015	-.2468	-.2979	-.3701	-.3478	-.2733	
.020	-.2282	-.2561	-.1728	-.2300	-.1829	
.025	-.2087	-.1771	-.11059	-.1109	-.1137	
.030	-.1891	-.1560	-.0889	-.1211	-.1989	
.035	-.1695	-.1363	-.11623	-.1413	-.1630	
.040	-.1499	-.1167	-.13606	-.1354	-.1230	

ALPHA ( 2 ) = .068 BETA ( 6 ) = 1.503 MACH = .59642 Q = 594.20 P = 2386.3 RN/L = 4.9159

SECTION 3: VERTICAL

DEPENDENT VARIABLE CP

Z BT .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2815	.1237	.0948	.0341	-.0105	
.005	-.2582	-.0320	-.16460	-.4349	-1.0001	
.010	-.3200	-.4829	-.5590	-.4000	-.8155	
.015	-.2468	-.2979	-.3701	-.3478	-.2733	
.020	-.2282	-.2561	-.1728	-.2300	-.1829	
.025	-.2087	-.1771	-.11059	-.1109	-.1137	
.030	-.1891	-.1560	-.0889	-.1211	-.1989	
.035	-.1695	-.1363	-.11623	-.1413	-.1630	
.040	-.1499	-.1167	-.13606	-.1354	-.1230	

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## TABULATED PRESSURE DATA - 041-1 ( AMES 11-073- )

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ALPHA ( 3 ) = 4.010 BETA ( 2 ) = -3.866 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137  
 SECTION ( 1 ) VERTICAL (XEBWIC)

Z/BV .1580 .3170 .4590 .6020 .7. .8390 .9250  
 X/CV  
 .000 .2701 .1249 .1159 .244 .1444  
 .025 .2335 .1778 .159 .2518 .2218  
 .050 .2057 .1621 .138 .2275 .1935  
 .100 .0861 .0675 .1382 .1382 .0968  
 .150 .0218 .0151 .087 .0619 .0215  
 .200 .1954 .0449 .027 .0214 .0450  
 .250 .2294 .0165 .042 .0179 .1691  
 .300 .1687 .0539 .042 .0496 .1026  
 .350 .1744 .0277 .16 .0816 .0955

ALPHA ( 3 ) = -.008 BETA ( 3 ) = .197 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .4251 .3607 .4023 .3743 .3134  
 .025 .0719 .3255 .2576 .1542 .3191  
 .050 .0208 .0728 .0497 .0409 .0408  
 .100 .0396 .0359 .0264 .0262 .0277  
 .150 .1299 .1199 .0295 .0101 .0441  
 .200 .2580 .1175 .0347 .0357 .0602  
 .250 .2166 .0657 .0202 .0288 .0158  
 .300 .1660 .1025 .1089 .0878 .0724  
 .350 .2133 .0254 .2208 .1651 .0916 .0735

ALPHA ( 3 ) = 4.011 BETA ( 4 ) = 4.242 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .2435 .0675 .0302 .0351 .1083  
 .025 .3699 .8205 .6507 .4289 .9664  
 .050 .3376 .4760 .5701 .4040 .7081  
 .100 .2776 .3321 .4130 .3618 .5247  
 .150 .2465 .2503 .1634 .2775 .1703  
 .200 .2997 .1770 .1060 .1053 .1037  
 .250 .2113 .1173 .0837 .0989 .1073  
 .300 .1856 .1356 .1699 .1399 .1097  
 .350 .2367 .0254 .2545 .2116 .1099 .1092

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV17)

ALPHA ( 3 ) = 4.014 BETA ( 5 ) = 8.290 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8137

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 -.1578 -.6090 -.5069 -.5478 -.4180  
 .025 -.6655 -1.1882 -.8046 -.6706 -.5394  
 .050 -.6724 -.9492 -.7891 -.6608 -.5149  
 .075 -.8251 -1.0237 -.7810 -.6528 -.4540  
 .100 -.3995 -.4355 -.7259 -.6138 -.3964  
 .125 -.3741 -.2552 -.3981 -.4264 -.3469  
 .150 -.1597 -.2787 -.2549 -.3959 -.3019  
 .175 -.2306 -.2613 -.2497 -.3331 -.3005  
 .200 -.2202 -.2766 -.2603 -.2699 -.2486

ALPHA ( 4 ) = 7.301 BETA ( 1 ) = -7.891 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 -.1236 -.4743 -.4908 -.2705 -.2504  
 .025 -.3641 -.3308 -.3771 -.3498 -.2869  
 .050 .3215 .2903 .3424 .3244 .2617  
 .075 .1858 .1787 .2484 .2271 .1405  
 .100 .0730 .0946 .1825 .1492 .0499  
 .125 .1351 .0370 .0963 .0339 .0671  
 .150 -.2145 -.0442 -.0987 .0735 .0139  
 .175 -.1737 .0099 .0111 .0099 -.2399  
 .200 -.1115 -.0939 -.0995 -.0687 -.1978

ALPHA ( 4 ) = 9.913 BETA ( 2 ) = -3.894 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2466 .0714 .0524 .1557 .0643  
 .025 .1865 .1568 .2455 .2392 .2005  
 .050 .1551 .1415 .2041 .2112 .1732  
 .075 .0633 .0535 .1255 .1243 .0778  
 .100 .0333 .0097 .0823 .0735 .0055  
 .125 .1120 .0383 .0823 .0078 .0687  
 .150 .2255 .0532 .0356 .0220 .0054  
 .175 .1433 .0025 .0560 .0394 .0013  
 .200 .1156 .0152 .0123 .0897 .1201

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V17)

ALPHA ( 4 ) = 7.919 BETA ( 3 ) = .190 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3974	.3233	.3521	.3273	.2541
.025	-.0794	-.3121	-.2367	-.1773	-.2993
.050	.0015	-.0871	-.0501	-.0250	-.0616
.150	-.0692	-.1053	-.0393	-.0295	-.0356
.300	-.1450	-.1260	-.0359	-.0153	-.0574
.520	-.2693	-.1063	-.0471	-.0371	-.0652
.685	-.2183	-.0619	-.1312	-.0385	-.0352
.775	-.1576	-.0937	-.1115	-.0913	-.1461
.900		-.2072	-.2586	-.1591	-.0930

ALPHA ( 4 ) = 7.918 BETA ( 4 ) = 4.240 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2229	.0403	-.0157	-.1028	-.1818
.025	-.3700	-.8155	-.6491	-.4348	-.9098
.050	-.3415	-.4429	-.5800	-.4052	-.5883
.150	-.2747	-.3578	-.4171	-.4022	-.3980
.300	-.2572	-.2558	-.1496	-.2789	-.1406
.520	-.3066	-.1650	-.1087	-.1001	-.1197
.685	-.1944	-.1143	-.1380	-.1013	-.0928
.775	-.1790	-.1354	-.1686	-.1496	-.1349
.900		-.2397	-.3036	-.2435	-.1136

ALPHA ( 4 ) = 7.914 BETA ( 5 ) = 8.294 MACH = .59650 Q = 594.32 P = 2386.1 RN/L = 4.8187

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1817	-.6425	-.5708	-.5646	-.4713
.025	-.6776	-.1315	-.8004	-.6006	-.4803
.050	-.7059	-.9511	-.7974	-.6077	-.4504
.150	-.6775	-.1033	-.8074	-.6006	-.4033
.300	-.3657	-.4021	-.7664	-.5748	-.3637
.520	-.3381	-.2487	-.3362	-.4379	-.3362
.685	-.2323	-.1878	-.1574	-.2979	-.4162
.775	-.2221	-.1932	-.2205	-.2437	-.3026
.900		-.2651	-.3022	-.2482	-.2801

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(X8V17)

ALPHA ( 5 ) = 11.926 BETA ( 1 ) = -7.855 MACH = .59628 Q = 593.97 P = 2366.5 RN/L = 4.8170

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV 1580 3170 4590 6020 6970 8390 9250

X/CV

.000	-.1418	-.5555	-.5922	-.3728	-.3691
.025	-.2859	-.3007	-.3286	-.3134	-.2377
.050	-.2271	-.2622	-.3153	-.2979	-.2230
.100	-.1041	-.1823	-.2306	-.2081	-.1184
.200	-.0206	-.0449	-.1731	-.1366	-.0279
.300	-.1358	-.0428	-.0942	-.0258	-.0763
.400	-.2356	-.0712	-.1413	.0644	.0028
.500	-.2775	-.0370	-.0234	.0019	-.0731
.600	-.1814	-.0310	-.1215	-.0959	-.1014
.700				-.1249	-.1920

ALPHA ( 5 ) = 11.949 BETA ( 2 ) = -3.840 MACH = .59628 Q = 593.97 P = 2366.5 RN/L = 4.8170

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV 1580 3170 4590 6020 6970 8390 9250

X/CV

.000	-.2609	-.0444	-.0100	.0720	-.0090
.025	-.1722	-.0451	-.0260	-.2175	-.1748
.050	-.0918	-.1237	-.1841	.1950	.1508
.100	-.0336	-.0426	.1132	.1123	.0563
.200	-.0110	-.0230	.0634	.0609	-.0073
.300	-.2322	-.0519	.0337	-.0090	-.0774
.400	-.2131	-.0015	-.1322	.0151	-.1989
.500	-.1449	-.0590	-.0391	-.0436	-.1320
.600		-.1233	-.1871	-.1187	-.0994
.700				-.1199	

ALPHA ( 5 ) = 11.954 BETA ( 3 ) = .189 MACH = .59628 Q = 593.97 P = 2366.5 RN/L = 4.8170

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV 1580 3170 4590 6020 6970 8390 9250

X/CV

.000	-.7304	-.2854	.3104	.2791	.2030
.025	-.6334	-.3117	-.2262	-.1850	-.2761
.050	-.5022	-.0327	-.0571	-.0282	-.0679
.100	-.0777	-.1105	-.0467	-.0356	-.0451
.200	-.1510	-.1353	-.0393	-.0779	-.0653
.300	-.2772	-.1078	-.0850	-.0436	-.0770
.400	-.2356	-.0316	-.1324	-.0481	-.1542
.500	-.1449	-.0036	-.0391	-.0948	-.0979
.600		-.2508	-.1111	-.0844	
.700			-.2525	-.1627	-.0953
.800					-.1003



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XEBV17)

ALPHA ( 5 ) = 11.952 BETA ( 4 ) = 4.250 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8170

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV	.000	.2563	.0032	-.0940	-.1778	-.2739
.025	-.3603	-.8239	-.6581	-.4435	-.8317	
.050	-.3222	-.4659	-.5945	-.4197	-.5142	
.150	-.2750	-.3883	-.4076	-.4485	-.4648	
.300	-.2729	-.2588	-.1624	-.3067	-.1547	
.520	-.3197	-.1731	-.1209	-.0978	-.1635	
.685	-.1867	-.1186	-.1324	-.1277	-.0931	-.2111
.775	-.1805	-.1422	-.1825	-.1857	-.1135	-.1642
.900	-.2431	-.3163	-.2614	-.2113	-.1250	-.1611

ALPHA ( 5 ) = 11.942 BETA ( 5 ) = 8.320 MACH = .59628

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV	.000	-.2216	-.6961	-.6701	-.6154	-.5333
.025	-.7816	-1.1174	-.8167	-.5922	-.4517	
.050	-.8069	-.9657	-.8368	-.5884	-.4368	
.150	-.5207	-1.0535	-.8669	-.5849	-.3870	
.300	-.4815	-.4464	-.8227	-.5742	-.3669	
.520	-.4537	-.2441	-.3451	-.4665	-.3417	
.685	-.3390	-.2028	-.1915	-.3238	-.3104	
.775	-.2505	-.2191	-.2229	-.2649	-.3871	-.2869
.900	-.2832	-.3034	-.2419	-.2159	-.2983	-.2625

P = 2386.5 RN/L = 4.8170

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = .076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.050 BETA ( 1 ) = -3.854 MACH = 1.3965

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7833	.6713	.6465	.4722	.4770	.4697	.6364
.000	.6119	.5274	.4651	.3926	.4033	.3781	.4671
.025	.5231	.4281	.3324	.2490	.3512	.3047	.3694
.050	.4317	.3357	.2490	.1855	.2955	.2322	.3140
.075	.3370	.2490	.1855	.1340	.2490	.1855	.2490
.100	.2490	.1855	.1340	.0921	.1855	.1340	.1855
.125	.1855	.1340	.0921	.0604	.1340	.0921	.1340
.150	.1340	.0921	.0604	.0387	.0921	.0604	.0921
.175	.0921	.0604	.0387	.0274	.0604	.0387	.0604
.200	.0604	.0387	.0274	.0192	.0387	.0274	.0387

ALPHA ( 1 ) = -4.042 BETA ( 2 ) = .192 MACH = 1.3965

SECTION ( 2 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7401	.6057	.5888	.4029	.4029	.3989	.5889
.000	.5889	.4029	.3989	.2252	.2252	.2248	.4029
.025	.4029	.2252	.2252	.1819	.1819	.1819	.2252
.050	.2252	.1819	.1819	.1360	.1360	.1360	.1819
.075	.1819	.1360	.1360	.1047	.1047	.1047	.1360
.100	.1360	.1047	.1047	.0848	.0848	.0848	.1047
.125	.1047	.0848	.0848	.0674	.0674	.0674	.0848
.150	.0848	.0674	.0674	.0531	.0531	.0531	.0674
.175	.0674	.0531	.0531	.0412	.0412	.0412	.0531
.200	.0531	.0412	.0412	.0324	.0324	.0324	.0412

(XEBV18) ( 13 AUG 75 )

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
BDFLAP = -11.700 L-ELVN = .000  
R-ELVN = .000 MACH = 1.400

P = 439.47 RN/L = 2.9144

P = 439.47 RN/L = 2.9144

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEP718)

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = -4.051 BETA ( 3 ) = 4.285 MACH = 1.3965 Q = 599.95 P = 439.47 RN/L = 2.9144

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.7661	.6699	.6183	.5468	.4646		
.000	.0943	-.0683	-.2793	-.4639	-.5263		
.025	.1140	-.0804	-.3100	-.4471	-.4841		
.050	.2138	.0354	-.0657	-.3278	-.3402		
.100	.2140	.0864	-.0367	.0151	-.1586		
.150	.0513	.0139	.0034	.0376	.0446		
.200	-.3712	-.4195	-.4247	-.3796	-.4028		
.250	-.3650	-.4089	-.3888	-.3796	-.3874		
.300		-.4039	-.3978	-.3955	-.3865		

ALPHA ( 2 ) = -.030 BETA ( 1 ) = -3.874 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.7151	.5987	.5710	.5551	.5464		
.000	.5210	.4493	.3935	.3987	.3969		
.025	.5447	.4455	.3885	.3942	.3930		
.050	.4485	.3477	.3191	.3305	.3116		
.100	.3141	.2586	.2599	.2868	.2404		
.150	.1549	.1466	.1330	.1974	.0948		
.200	-.3311	-.3624	-.4081	-.3197	-.3509		
.250	-.3468	-.3520	-.3154	-.3314	-.3302		
.300		-.3441	-.3240	-.3078	-.3159		

ALPHA ( 2 ) = -.025 BETA ( 2 ) = .186 MACH = 1.3950 Q = 599.63 P = 440.18 RN/L = 2.9101

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.7575	.6594	.6234	.5660	.4781		
.000	.2146	.1037	-.0112	-.0160	-.0894		
.025	.3995	.2930	.0241	-.0048	-.0394		
.050	.3740	.2168	.1685	.1702	.1574		
.100	.2272	.1500	.1396	.1529	.1353		
.150	.0736	.0518	.0609	.1292	.0608		
.200	-.3729	-.3946	-.4322	-.3542	-.3820		
.250	-.3497	-.3791	-.3709	-.3715	-.3632		
.300		-.3257	-.3748	-.3729	-.3762		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV16)

ALPHA ( 2 ) = -.030 BETA ( 3 ) = 4.265 MACH = 1.3950 Q = 599.63 P = 440.18 RAV/L = 2.9101

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6919	.5995	.5418	.4639	.3700
.025	-.0258	-.1349	-.3046	-.4719	-.5352
.050	.0479	-.1347	-.3416	-.4595	-.4935
.075	.1469	-.0246	-.1018	-.3488	-.3642
.100	.1520	.0511	-.0731	-.0265	-.1477
.125	-.0013	-.0360	-.0369	-.0053	-.0053
.150	-.0023	-.4474	-.1520	-.4115	-.4218
.175	-.0587	-.4417	-.3977	-.4077	-.3795
.200		-.4242	-.4275	-.4101	-.3976

ALPHA ( 3 ) = 3.919 BETA ( 1 ) = -3.877 MACH = 1.3940 Q = 599.41 P = 440.65 RAV/L = 2.9155

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6178	.5239	.4975	.4623	.4534
.025	.3771	.3616	.3122	.3210	.3099
.050	.4200	.3700	.3093	.3124	.3146
.075	.3434	.2744	.2490	.2587	.2455
.100	.2362	.1925	.1915	.2181	.1817
.125	.0936	.0834	.0791	.1425	.0477
.150	.0926	.0938	-.1655	-.3470	-.3701
.175	-.0519	-.1307	-.3430	-.3553	-.3537
.200		-.0326	-.3554	-.3413	-.3662

ALPHA ( 1 ) = 2.922 BETA ( 2 ) = .195 MACH = 1.3940 Q = 599.41 P = 440.65 RAV/L = 2.9155

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6558	.5376	.5353	.4702	.3950
.025	.1676	.0322	-.0427	-.0548	-.1211
.050	.0000	.0515	-.0463	-.0489	-.0703
.075	.0000	.0705	.1120	.1086	.1031
.100	.0000	.0223	.0925	.0946	.0769
.125	.0000	.0016	.0133	.0787	.0119
.150	.0000	.0016	-.1601	-.3763	-.4033
.175	.0000	.0000	-.0507	-.3953	-.4094
.200		.0000	-.0322	-.3931	-.4090

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.923 BETA ( 3 ) = 4.255 MACH = 1.3940 Q = 599.41 P = 440.65 RN/L = 2.9155  
(XEBV18)

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	.000	.5858	.5423	.4561	.3710	.3020
.025	-.1091	-.1601	-.3439	-.4769	-.5435	-.5435
.050	-.0150	-.1449	-.3698	-.4738	-.5020	-.5020
.100	.1350	-.0368	-.1541	-.3581	-.3886	-.3886
.150	.0939	-.0111	-.1004	-.0783	-.1082	-.1082
.200	-.0723	-.0984	-.0800	-.0418	-.0539	-.0539
.250	-.3436	-.4707	-.1636	-.4755	-.4475	-.4046
.300	-.3357	-.4629	-.4444	-.4275	-.4256	-.4146
.350	-.3939	-.4529	-.4434	-.4346	-.4234	-.4139

ALPHA ( 4 ) = 7.792 BETA ( 1 ) = -3.867 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	.000	.5985	.4847	.4284	.3726	.3714
.025	.2560	.2866	.2331	.2331	.2302	.2302
.050	.3353	.3053	.2372	.2386	.2409	.2409
.100	.2854	.2148	.1818	.1878	.1804	.1804
.150	.1517	.1242	.1310	.1526	.1251	.1251
.200	.0396	.0351	.0320	.0914	.0023	.0023
.250	-.4021	-.4021	-.1831	-.3677	-.3794	-.4176
.300	-.3793	-.4023	-.3595	-.3717	-.3771	-.4114
.350	-.4158	-.3761	-.3592	-.3632	-.3864	-.4076

ALPHA ( 4 ) = 7.791 BETA ( 2 ) = .182 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	.000	.6922	.5297	.4494	.3829	.3148
.025	.1916	.0310	-.0831	-.0831	-.1016	-.1581
.050	.3216	.2055	-.0800	-.0800	-.1069	-.1183
.100	.2956	.1171	.0618	.0492	.0434	.0434
.150	.1164	.0391	.0261	.0380	.0234	.0234
.200	-.0377	-.0475	-.0389	.0247	-.0352	-.0352
.250	-.4140	-.4343	-.1698	-.3971	-.4185	-.4269
.300	.695	-.4140	-.4052	-.4166	-.4057	-.4288
.350	-.3336	-.4318	-.4052	-.4166	-.4185	-.4245
.400	-.4339	-.4339	-.4157	-.4142	-.4185	-.4245

ORIGINAL PAGE IS  
OF POOR QUALITY

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV18)

ALPHA ( 4 ) = 7.919 BETA ( 3 ) = 4.252 MACH = 1.3956 Q = 599.84 P = 439.94 RN/L = 2.9129

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5577	.5033	.3845	.2935	.2459
.025	.0895	-.1490	-.3526	-.4646	-.5447
.050	.1443	-.1248	-.3789	-.4703	-.5011
.075	.2405	-.0022	-.1700	-.3131	-.3945
.100	.0464	-.0552	-.1127	-.1137	-.1115
.125	-.1134	-.1356	-.1175	-.0852	-.0905
.150	-.2581	-.1677	-.4950	-.4366	-.4612
.175	-.3514	-.4603	-.4544	-.4449	-.4388
.200	-.3844	-.4722	-.4606	-.4535	-.4371

ALPHA ( 5 ) = 11.807 BETA ( 1 ) = -3.848 MACH = 1.3955 Q = 599.65 P = 439.24 RN/L = 2.9163

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6435	.4555	.3601	.3031	.2912
.025	.3518	.2550	.1857	.1893	.1730
.050	.1451	.2755	.1971	.1826	.1840
.075	-.2649	.1569	.1292	.1344	.1283
.100	.0850	.0533	.0500	.1016	.0797
.125	-.0325	-.0154	-.0046	.0418	-.0282
.150	-.4083	-.1764	-.4514	-.3777	-.3957
.175	-.3718	-.3695	-.3769	-.3853	-.3909
.200	-.4244	-.3831	-.3582	-.3739	-.3925

ALPHA ( 5 ) = 11.813 BETA ( 2 ) = .187 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9163

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.0592	.4722	.3757	.3054	.2476
.025	.1574	.0095	-.1123	-.1282	-.1819
.050	.3301	.1715	-.1171	-.1425	-.1926
.075	.2849	.0091	.0097	.0024	-.0063
.100	.0832	.1112	-.0180	-.0140	-.0263
.125	-.0351	.1333	-.0845	-.0240	-.0797
.150	-.4115	-.1826	-.4905	-.4182	-.4429
.175	-.3715	-.3695	-.3730	-.4356	-.4432
.200	-.4244	-.3831	-.3582	-.4344	-.4456

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.810 BETA ( 3 ) = 4.268 MACH = 1.3955 Q = 599.65 P = 439.24 RN/L = 2.9163  
 SECTION ( 1 ) VERTICAL (XEBV18)

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6229	.4710	.3125	.2171	.1774		
.000	.025	.1044	.1533	.1619	.1604	.1774	
.050	.1668	.1353	.1326	.1326	.1326	.1326	
.100	.2232	.1035	.1035	.1035	.1035	.1035	
.150	.2743	.0767	.0767	.0767	.0767	.0767	
.200	.3254	.0501	.0501	.0501	.0501	.0501	
.250	.3765	.0236	.0236	.0236	.0236	.0236	
.300	.4276	.0000	.0000	.0000	.0000	.0000	
.350	.4787						
.400	.5298						
.450	.5809						
.500	.6320						
.550	.6831						
.600	.7342						
.650	.7853						
.700	.8364						
.750	.8875						
.800	.9386						
.850	.9897						
.900	.10408						

ALPHA ( 6 ) = 15.905 BETA ( 1 ) = -3.833 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7672	.5127	.3328	.2401	.2276		
.000	.025	.1044	.1533	.1619	.1604	.1774	
.050	.1668	.1353	.1326	.1326	.1326	.1326	
.100	.2232	.1035	.1035	.1035	.1035	.1035	
.150	.2743	.0767	.0767	.0767	.0767	.0767	
.200	.3254	.0501	.0501	.0501	.0501	.0501	
.250	.3765	.0236	.0236	.0236	.0236	.0236	
.300	.4276	.0000	.0000	.0000	.0000	.0000	
.350	.4787						
.400	.5298						
.450	.5809						
.500	.6320						
.550	.6831						
.600	.7342						
.650	.7853						
.700	.8364						
.750	.8875						
.800	.9386						
.850	.9897						
.900	.10408						

ALPHA ( 6 ) = 15.920 BETA ( 2 ) = .154 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6935	.4392	.3315	.2409	.2276		
.000	.025	.1044	.1533	.1619	.1604	.1774	
.050	.1668	.1353	.1326	.1326	.1326	.1326	
.100	.2232	.1035	.1035	.1035	.1035	.1035	
.150	.2743	.0767	.0767	.0767	.0767	.0767	
.200	.3254	.0501	.0501	.0501	.0501	.0501	
.250	.3765	.0236	.0236	.0236	.0236	.0236	
.300	.4276	.0000	.0000	.0000	.0000	.0000	
.350	.4787						
.400	.5298						
.450	.5809						
.500	.6320						
.550	.6831						
.600	.7342						
.650	.7853						
.700	.8364						
.750	.8875						
.800	.9386						
.850	.9897						
.900	.10408						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV19)

ALPHA 1 0' = 15.910 BETA 1 3) = 4.299 MACH = 1.3951 Q = 599.73 P = 440.18 RN/L = 2.9184

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z 9' .0500 .3170 .4590 .6020 .6970 .8390 .9250

X 0V

.000	.7617	.5230	.2865	.1559	.1282
.025	.1193	.11548	.3626	.4609	.5142
.050	.6559	.11203	.3935	.4671	.5135
.075	.6815	.0073	.2106	.2809	.3694
.100	.0715	.0763	.1638	.1909	.2217
.125	.1416	.1913	.1762	.1812	.1634
.150	.1770	.2326	.5135	.4601	.4642
.175	.3764	.4794	.4794	.4601	.4642
.200	.4794	.4794	.4794	.4601	.4642
.225	.4794	.4794	.4794	.4601	.4642
.250	.4794	.4794	.4794	.4601	.4642
.275	.4794	.4794	.4794	.4601	.4642
.300	.4794	.4794	.4794	.4601	.4642
.325	.4794	.4794	.4794	.4601	.4642
.350	.4794	.4794	.4794	.4601	.4642
.375	.4794	.4794	.4794	.4601	.4642
.400	.4794	.4794	.4794	.4601	.4642
.425	.4794	.4794	.4794	.4601	.4642
.450	.4794	.4794	.4794	.4601	.4642
.475	.4794	.4794	.4794	.4601	.4642
.500	.4794	.4794	.4794	.4601	.4642
.525	.4794	.4794	.4794	.4601	.4642
.550	.4794	.4794	.4794	.4601	.4642
.575	.4794	.4794	.4794	.4601	.4642
.600	.4794	.4794	.4794	.4601	.4642
.625	.4794	.4794	.4794	.4601	.4642
.650	.4794	.4794	.4794	.4601	.4642
.675	.4794	.4794	.4794	.4601	.4642
.700	.4794	.4794	.4794	.4601	.4642
.725	.4794	.4794	.4794	.4601	.4642
.750	.4794	.4794	.4794	.4601	.4642
.775	.4794	.4794	.4794	.4601	.4642
.800	.4794	.4794	.4794	.4601	.4642
.825	.4794	.4794	.4794	.4601	.4642
.850	.4794	.4794	.4794	.4601	.4642
.875	.4794	.4794	.4794	.4601	.4642
.900	.4794	.4794	.4794	.4601	.4642
.925	.4794	.4794	.4794	.4601	.4642
.950	.4794	.4794	.4794	.4601	.4642
.975	.4794	.4794	.4794	.4601	.4642
.1000	.4794	.4794	.4794	.4601	.4642



TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA  
 REF = 2090.000 SQ. FT. XREF = 1076.680 IN. XO  
 REF = 174.900 IN. YREF = .0000 IN. YO  
 REF = 486.000 IN. ZREF = 375.000 IN. ZO  
 SCALE = .0000

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = .000  
 BOFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA (1) = -4.048 BETA (1) = -3.848 MACH = 1.2478 Q = 600.12 P = 550.64 RN/L = 3.0180

SECTION 1 VERTICAL		DEPENDENT VARIABLE CP	
Z/B			
X/CV			
.020	.7639	.6079	.6165
.025	.5954	.4195	.4247
.030	.5937	.4095	.4155
.035	.4941	.3828	.3947
.040	.3266	.2743	.3398
.045	.1291	.0949	.2762
.050	.1131	.0949	.2247
.055	.1175	.1432	.1447
.060	.1416	.1534	.0259
.065	.1428	.1447	.4955
.070	.1332	.1458	.5184
.075	.1349	.1453	.5036
.080	.1349	.1453	.4850

SECTION 2 VERTICAL		DEPENDENT VARIABLE CP	
Z/B			
X/CV			
.020	.6122	.6637	.6295
.025	.5810	.6302	.6013
.030	.4376	.6294	.5883
.035	.3791	.6165	.5681
.040	.2316	.6144	.5589
.045	.1618	.6344	.5476
.050	.1118	.6554	.5372
.055	.0716	.6776	.5131
.060	.0346	.6976	.4875
.065	.0000	.7176	.4675
.070	.0000	.7376	.4475
.075	.0000	.7576	.4275
.080	.0000	.7776	.4075

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A(48) -140A/B/C/R ORB VERTICAL

(XEBV19)

ALPHA ( 1 ) = -3.984 BETA ( 3 ) = 4.283 MACH = 1.2478 O = 600.12 P = 550.64 RN/L = 3.0180

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.7445	.6178	.5744	.4973	.4280
.025	.0714	-.1589	-.3595	-.5977	-.6824
.050	.1015	-.1594	-.3984	-.5939	-.6033
.100	.2007	.0025	-.1185	-.3692	-.4863
.150	.1413	.0229	-.0990	-.0573	-.0665
.200	-.0235	-.0499	-.0734	-.0732	-.0470
.250	-.4627	-.5434	-.1776	-.5489	-.5008
.300	-.3853	-.5207	-.5245	-.5051	-.5070
.350		-.4433	-.5229	-.5179	-.5013

ALPHA ( 2 ) = -.051 BETA ( 1 ) = -3.861 MACH = 1.2471 O = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.6955	.5515	.5209	.5252	.5042
.025	.5113	.3859	.3340	.3447	.3346
.050	.5264	.3907	.3273	.3380	.3317
.100	.4139	.2892	.2611	.2703	.2447
.150	.2591	.2029	.2000	.2169	.1692
.200	.0898	.0704	.0473	.1007	-.0160
.250	-.283	-.4969	-.1613	-.4608	-.5071
.300	-.3479	-.4639	-.4395	-.4710	-.5375
.350		-.3714	-.4407	-.4456	-.4773
.400				-.4874	-.5112

ALPHA ( 2 ) = -.007 BETA ( 2 ) = .182 MACH = 1.2471 O = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.7533	.6219	.5921	.5381	.4572
.025	.2114	.0287	-.0805	-.1022	-.1718
.050	.4033	.2326	-.0371	-.0903	-.1158
.100	.2278	.1515	.1024	.1003	.1037
.150	.1643	.0539	.0754	.0898	.0739
.200	.0004	-.0157	-.0183	.0404	-.0390
.250	-.4493	-.5314	-.1535	-.5034	-.5261
.300	-.3478	-.5217	-.5087	-.5131	-.5368
.350		-.4419	-.5033	-.5100	-.5198
.400					-.5120

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV19)

ALPHA ( 2 ) = -.013 BETA ( 3 ) = 4.263 MACH = 1.2471 Q = 599.71 P = 550.87 RN/L = 3.0179

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.030	.6780	.5521	.4974	.4163	.3279	
.025	-.0247	-.1933		-.3874	-.5988	-.6891	
.050	.0120	-.2018		-.4389	-.6073	-.6172	
.150	.1357	-.0662		-.1720	-.3416	-.4924	
.300	.0930	-.0152		-.1419	-.1103	-.0968	
.520	-.0737	-.1045		-.1132	-.1163	-.0903	
.685	-.4540	-.5736	-.1585	-.5857	-.5494	-.5203	
.775	-.3771	-.5506	-.5480	-.5274	-.5435	-.5304	-.5374
.900		-.4289	-.5563	-.5480	-.5425	-.5308	-.5267

ALPHA ( 3 ) = 3.859 BETA ( 1 ) = -3.873 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6249	.4912	.4444	.4261	.4138	
.025	.3863	.3098		.2548	.2671	.2643	
.050	.4173	.3155		.2520	.2600	.2621	
.150	.3252	.2243		.1896	.1995	.1797	
.300	.1925	.1340		.1314	.1516	.1054	
.520	.0319	.0132		-.0057	.0536	-.0563	
.685	-.4548	-.5210	-.1716	-.5760	-.4844	-.5173	-.5532
.775	-.3498	-.5018	-.4650	-.4711	-.4920	-.4926	-.5408
.900		-.4054	-.4729	-.4352	-.4692	-.5074	-.5339

ALPHA ( 3 ) = 3.906 BETA ( 2 ) = .178 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7096	.5566	.4992	.4399	.3507	
.025	.1708	-.0042		-.1235	-.1358	-.2073	
.050	.3423	.1875		-.0894	-.1306	-.1580	
.150	.2787	.1014		.0427	.0429	.0439	
.300	.1182	.0233		.0173	.0327	.0186	
.520	-.0492	-.0709		-.0647	-.0040	-.0804	
.685	-.4778	-.5478	-.1709	-.5971	-.5148	-.5464	-.5565
.775	-.3570	-.5410	-.5248	-.5226	-.5312	-.5258	-.5544
.900		-.4148	-.5272	-.5269	-.5370	-.5365	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV19)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 3 ) = 3.928 BETA ( 3 ) = 4.253 MACH = 1.2484 Q = 600.53 P = 550.41 RN/L = 3.0214

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6060	.4958	.4120	.3304	.2267	
.025	-.0658	-.2345	-.4261	-.5988	-.6965	
.050	.0210	-.2203	-.4672	-.6123	-.6379	
.100	.1111	-.0979	-.2234	-.3583	-.4926	
.300	.0411	-.0657	-.1686	-.1539	-.1463	
.520	-.1488	-.1725	-.1584	-.1461	-.1540	
.685	-.3799	-.6082	-.1687	-.5744	-.5708	-.5483
.775	-.3515	-.5045	-.5717	-.5578	-.5506	-.5583
.900		-.4143	-.5684	-.5729	-.5684	-.5502

ALPHA ( 4 ) = 7.851 BETA ( 1 ) = -3.877 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6457	.4585	.3748	.3359	.3263	
.025	.3350	.2381	.1801	.1993	.1954	
.050	.3266	.2570	.1829	.1943	.1982	
.100	.2740	.1520	.1267	.1407	.1266	
.300	.1149	.0646	.0743	.0957	.0548	
.520	-.0155	-.0226	-.0471	.0058	-.0947	
.685	-.4896	-.5318	-.5923	-.5269	-.5660	
.775	-.3789	-.5254	-.4808	-.5081	-.5095	-.5553
.900		-.4567	-.4946	-.4839	-.4865	-.5498

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = .182 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0223

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6917	.4856	.4132	.3461	.2559	
.025	.1742	-.0431	-.1697	-.1825	-.2489	
.050	.3159	.1445	-.1547	-.1805	-.2004	
.100	.2408	.0400	-.0144	-.0160	-.0162	
.300	.0504	-.0332	-.0407	-.0269	-.0397	
.520	-.0093	-.1272	-.1144	-.0506	-.1228	
.685	-.4920	-.5673	-.6117	-.5337	-.5662	-.5750
.775	-.3667	-.5054	-.5424	-.5529	-.5479	-.5721
.900		-.4153	-.5498	-.5455	-.5562	-.5602

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ALPHA ( 4 ) = 7.972 BETA ( 3 ) = 4.253 MACH = 1.2474 0 = 600.07 P = 550.87 RN/L = 3.0223  
(XEBV19)

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP									
Z/BV		.1580	.3170	.4590	.6020	.6970	.8390	.9250			
X/CG											
.000		.6304	.4591		.3390		.2441	.1520			
.025		.0765	-.2364		-.4493		-.5879	-.6688			
.050		.1219	-.2182		-.4924		-.5815	-.6381			
.150		.1841	-.0802		-.2522		-.3920	-.4598			
.300		-.0237	-.1207		-.1847		-.1963	-.1930			
.520		-.1910	-.2194		-.1932		-.1662	-.1861			
.685		-.4023	-.6224	-.1843	-.6438	-.5799	-.5980	-.5775			
.775		-.3843	-.5085	-.5949	-.5855	-.5794	-.5673	-.5685			
.900			-.4144	-.5730	-.5924	-.5870	-.5713	-.5663			

ALPHA ( 5 ) = 11.905 BETA ( 1 ) = -3.844 MACH = 1.2483 0 = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP									
Z/BV		.1580	.3170	.4590	.6020	.6970	.8390	.9250			
X/CG											
.000		.6546	.4299		.3130		.2550	.2439			
.025		.2801	.1939		.1280		.1443	.1369			
.050		.3562	.2140		.1287		.1365	.1426			
.150		.2197	.1116		.0754		.0851	.0772			
.300		.0445	.0090		.0250		.0520	.0121			
.520		-.0733	-.0707		-.0779		-.0373	-.1275			
.685		-.4829	-.5352	-.1861	-.5973	-.5125	-.5357	-.5747			
.775		-.3829	-.5333	-.4889	-.4995	-.5170	-.5286	-.5631			
.900			-.4855	-.5081	-.4910	-.4924	-.5300	-.5583			

ALPHA ( 5 ) = 11.915 BETA ( 2 ) = .187 MACH = 1.2483 0 = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP									
Z/BV		.1530	.3170	.4590	.6020	.6970	.8390	.9250			
X/CG											
.000		.6557	.4471		.3458		.2655	.1882			
.025		.1681	-.0641		-.1991		-.2176	-.2708			
.050		.3040	.1149		-.1858		-.2209	-.2233			
.150		.2277	.0132		-.0546		-.0627	-.0642			
.300		.0234	-.0710		-.0842		-.0741	-.0852			
.520		-.1445	-.1592		-.1522		-.0937	-.1612			
.685		-.4948	-.5851	-.1911	-.6249	-.5503	-.5804	-.5889			
.775		-.3931	-.5533	-.5557	-.5562	-.5688	-.5633	-.5862			
.900			-.4314	-.5640	-.5562	-.5609	-.5705	-.5798			

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV19)

ALPHA ( 5 ) = 11.907 BETA ( 3 ) = 4.269 MACH = 1.2483 Q = 600.41 P = 550.41 RN/L = 3.0228

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6590	.4324	.2776	.1715	.0957
.025	.0669	-.2390	-.4555	-.5839	-.6740
.050	.1249	-.2224	-.4933	-.5817	-.6502
.150	.1626	-.1004	-.2767	-.3389	-.4076
.300	-.0318	-.1473	-.2058	-.2452	-.2579
.520	-.2115	-.2401	-.2207	-.2283	-.2162
.695	-.4326	-.6299	-.8326	-.5786	-.5971
.775	-.3634	-.5165	-.6021	-.5978	-.5969
.900		-.4136	-.5617	-.6035	-.5900
					-.5790

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV20) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2920.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 935.0590 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
BOFLAP = -11.700 L-ELVN = .000  
R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -4.047 BETA ( 1 ) = -3.843 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6880 .5498 .5311 .5543 .5188  
.025 .5263 .3666 .3391 .3365 .2891  
.050 .5180 .3696 .3306 .3256 .2905  
.150 .3790 .2791 .2546 .2395 .2057  
.300 .2295 .1959 .1756 .1722 .1021  
.520 .0569 .0240 .0306 .0046 .1183  
.685 .4041 .6537 .7517 .7097 .7261  
.775 .3483 .5150 .6016 .6617 .7055  
.900 .4079 .5599 .5798 .6151 .6644

ALPHA ( 1 ) = -3.971 BETA ( 2 ) = .189 MACH = 1.1022 Q = 601.66 P = 707.48 RN/L = 3.1893

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7432 .6162 .6065 .5764 .5040  
.025 .2495 .0171 .1309 .1498 .112  
.050 .3732 .1975 .0333 .0431 .1623  
.150 .2806 .1239 .0844 .0743 .0746  
.300 .1229 .0584 .0584 .0475 .0216  
.520 .0209 .0599 .0817 .0535 .1357  
.685 .4141 .6327 .7761 .7147 .7168  
.775 .3503 .5319 .6706 .6677 .6929  
.900 .4214 .6276 .6495 .6779 .6594

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV20)

ALPHA ( 1 ) = -3.999 BETA ( 3 ) = 4.285 MACH = 1.1022 O = 601.66 P = 707.48 RN/L = 3.1893

SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV  
.000 .6715 .5381 .4975 .4148 .3721  
.025 .0319 .3249 .5048 .7630 .7985  
.050 .0473 .2450 .5173 .7658 .7649  
.150 .1303 .0731 .2213 .3937 .5760  
.200 .0230 .0823 .1970 .1795 .1546  
.520 .1250 .1677 .1842 .2208 .1793  
.695 .4596 .7194 .7393 .6973 .6861  
.775 .3808 .5535 .7259 .6940 .7112  
.920 .4545 .6556 .7067 .6899 .6742

ALPHA ( 2 ) = -.035 BETA ( 1 ) = -3.867 MACH = 1.1011 O = 601.17 P = 708.39 RN/L = 3.1908

SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV  
.000 .6459 .4852 .4517 .4581 .4273  
.025 .4513 .2903 .2561 .2608 .2296  
.050 .4627 .2970 .2535 .2511 .2255  
.150 .3560 .2024 .1903 .1699 .1399  
.200 .1620 .1163 .1085 .1066 .0477  
.520 .3332 .0330 .0831 .0395 .1652  
.695 .4225 .6789 .7678 .7246 .7502  
.775 .2509 .5126 .5325 .6690 .6796  
.920 .4131 .5825 .6124 .6394 .6881 .7053

ALPHA ( 2 ) = -.059 BETA ( 2 ) = .183 MACH = 1.1011 O = 601.17 P = 708.39 RN/L = 3.1906

SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV  
.000 .7547 .5584 .5298 .4886 .4213  
.025 .4396 .2653 .1726 .1873 .2523  
.050 .3208 .1475 .0358 .1303 .1910  
.150 .4227 .0423 .0274 .0167 .0256  
.200 .3048 .0031 .0040 .0037 .0267  
.520 .3040 .1107 .1277 .0962 .1722  
.695 .4247 .1700 .7505 .7342 .7407  
.775 .3520 .5154 .6952 .7095 .7345  
.920 .4201 .5051 .5726 .6958 .7117 .6927



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TABULATED PRESSUR DATA - 08148 (AMES 11-073-1)

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AMES 11-073(08148) -140A/B/C/R ORB VERTICAL (XE8V20)

ALPHA ( 2 ) = -.052 BETA ( 3 ) = 4.261 MACH = 1.1011 Q = 601.17 P = 708.39 RN/L = 3.1906

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6284	.4813		.4235		.3340	.2571
.025	-.0564	-.3510		-.5322		-.7755	-.8225
.050	-.0257	-.3103		-.5665		-.7786	-.7945
.150	.0896	-.1316		-.2820		-.4545	-.5255
.300	-.0199	-.1280		-.2540		-.2228	-.2090
.520	-.1853	-.2211		-.2244		-.2602	-.2356
.685	-.4725	-.7505	-.1832	-.7862	-.7395	-.7219	-.7157
.775	-.3749	-.5404	-.7439	-.7231	-.7511	-.7076	-.7373
.900		-.4415	-.5744	-.7411	-.7393	-.7276	-.7169

ALPHA ( 3 ) = 3.956

BETA ( 1 ) =

MACH =

1.1013

Q =

P =

708.16

RN/L = 3.1838

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6011	.4350		.3776		.3682	.3448
.025	.3449	.2204		.1807		.1954	.1772
.050	.3742	.2340		.1750		.1857	.1698
.150	.2605	.1394		.1100		.1098	.0841
.300	.1103	.0487		.0438		.0511	.0005
.520	-.0501	-.0868		-.1233		-.0791	-.1911
.685	-.4709	-.6954	-.1675	-.7787	-.6650	-.7316	-.7604
.775	-.3574	-.5373	-.6509	-.6503	-.6990	-.7059	-.7376
.900		-.4088	-.5892	-.6366	-.6513	-.7100	-.7236

ALPHA ( 3 ) = 3.924

BETA ( 2 ) =

MACH =

1.1013

Q =

P =

708.16

RN/L = 3.1838

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6707	.4981		.4474		.3965	.3083
.025	.1428	-.1022		-.2180		-.2397	-.2980
.050	.2899	.1062		-.1182		-.2282	-.2301
.150	.2013	.0183		-.0307		-.0382	-.0318
.300	.0235	-.0530		-.0567		-.0482	-.0781
.520	-.1303	-.1523		-.1728		-.1272	-.2139
.685	-.4525	-.7296	-.1591	-.8017	-.7024	-.7454	-.7582
.775	-.3625	-.5248	-.7101	-.7017	-.7257	-.7257	-.7513
.900		-.4329	-.5826	-.6967	-.7121	-.7413	-.7178

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV20)

ALPHA ( 3 ) = 3.921 BETA ( 3 ) = 4.251 MACH = 1.1013 Q = 601.26 P = 708.15 RN/L = 3.1838

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5895	.4297	.3451	.2465	.1518
.025	-.0934	-.3755	-.5551	-.7700	-.8359
.050	-.0391	-.3408	-.5068	-.7517	-.8088
.100	-.0456	-.1764	-.3514	-.4820	-.4345
.200	-.0620	-.1741	-.2731	-.2700	-.2614
.300	-.2535	-.2859	-.2650	-.2724	-.3033
.400	-.3935	-.1623	-.8287	-.7731	-.7473
.500	-.3434	-.7407	-.7397	-.7619	-.7510
.600	-.3419	-.5105	-.7165	-.7617	-.7322

ALPHA ( 4 ) = 7.853 BETA ( 1 ) = -3.864 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6117	.3559	.3013	.2755	.2521
.025	.3362	.1501	.0983	.1357	.1286
.050	.3622	.1714	.1030	.1279	.1195
.100	.2173	.0676	.0522	.0579	.0362
.200	.0235	-.0274	.0024	.0062	-.0355
.300	-.1184	-.1219	-.1596	-.1162	-.2241
.400	-.1075	-.7074	-.1703	-.6848	-.7233
.500	-.3773	-.5510	-.6495	-.7049	-.7014
.600	-.3413	-.5782	-.6444	-.6482	-.7308

ALPHA ( 1 ) = 7.855 BETA ( 2 ) = .180 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6405	.3732	.3591	.3047	.2074
.025	.2711	.1453	-.2793	-.2978	-.3585
.050	.2559	.0562	-.2154	-.3025	-.3092
.100	.0459	-.0375	-.0972	-.1031	-.0983
.200	-.0234	-.1193	-.1232	-.1083	-.1281
.300	-.1533	-.2134	-.2208	-.1716	-.2550
.400	-.1545	-.1784	-.9202	-.7208	-.7796
.500	-.3415	-.5142	-.7356	-.7494	-.7516
.600	-.3415	-.5441	-.7208	-.7579	-.7449

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/8/C/R ORB VERTICAL (XE8V20)

ALPHA ( 4 ) = 7.853 BETA ( 3 ) = 4.247 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1857

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6005	.3825	.2696	.1667	.0545
.025	-.0388	-.3789	-.5840	-.7639	-.8615
.050	.0229	-.3370	-.6283	-.7352	-.8267
.150	.0705	-.1954	-.4010	-.4657	-.4690
.300	-.1207	-.2267	-.2901	-.3342	-.3232
.520	-.3072	-.3287	-.3059	-.2827	-.3160
.655	-.4281	-.6952	-.8530	-.7801	-.7744
.775	-.3713	-.7084	-.7731	-.7800	-.7565
.900	-.4955	-.5085	-.5541	-.6949	-.7703

ALPHA ( 5 ) = 11.903 BETA ( 1 ) = -3.846 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6357	.3593	.2374	.1812	.1624
.025	.1858	.0922	.0500	.0849	.0867
.050	.2772	.1266	.0567	.0726	.0731
.150	.1412	.0350	.0060	.0081	-.0036
.300	-.0390	-.0560	-.0433	-.0455	-.0459
.520	-.1482	-.1430	-.1947	-.1399	-.2443
.685	-.5113	-.7150	-.1797	-.6967	-.7170
.775	-.3352	-.6454	-.6592	-.6995	-.7137
.900	-.4432	-.4432	-.6376	-.6284	-.6850

ALPHA ( 5 ) = 11.911 BETA ( 2 ) = .188 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6255	.3339	.2920	.2106	.0967
.025	.1035	-.1828	-.3210	-.3326	-.4006
.050	.2345	.0160	-.2687	-.3397	-.3595
.150	.1315	-.0795	-.1530	-.1624	-.1584
.300	-.0712	-.1648	-.1799	-.1669	-.1786
.520	-.2451	-.2591	-.2640	-.2162	-.2931
.685	-.4955	-.7632	-.1620	-.7411	-.7885
.775	-.4955	-.5439	-.7504	-.7690	-.7964
.900	-.4955	-.4439	-.5357	-.7470	-.7653

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.905 BETA ( 3 ) = 4.263 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1882  
(XEBV20)

COEFFICIENTS

DEPENDENT VARIABLE CP

Z/ST	.150	.317	.489	.602	.697	.839	.925
X/CV	.6292	.7589	.8228	.8675	.8970	.9250	
.000	-.0128	-.3918	.2028	-.7367	.0706	-.0472	
.025	.0972	-.3435	-.6075	-.7367	-.8491	-.8491	
.050	.0637	-.2113	-.6409	-.7289	-.8803	-.8803	
.075	-.1042	-.0630	-.4518	-.4727	-.5432	-.5432	
.100	-.3409	-.3200	-.3238	-.4236	-.4552	-.4552	
.125	-.4285	-.3400	-.3397	-.3558	-.3469	-.3469	
.150	-.3509	-.2522	-.1759	-.7824	-.7775	-.7960	
.175		-.5173	-.6504	-.7986	-.7745	-.7513	
.200			-.5182	-.5321	-.5747	-.7689	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV21) ( 13 AUG 75 )

REFERENCE DATA

CRCP = 1073.000 SQ.FT. XMRP = 1075.680 IN. X0  
 LREF = 4.18100 IN. YMRP = .0000 IN. Y0  
 BREF = 0.00000 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0000

PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = .900

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -3.849 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693  
 SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4204	.3500	.3638	.4077	.3540	
.025	.2485	.2124	.2346	.2061	.2291	.1634	
.050	.3129	.2133	.2061	.2061	.2064	.1570	
.075	.1325	.1159	.1112	.0918	.0918	.0447	
.100	.0421	.0170	.0086	.0086	.0122	-.0980	
.125	-.1846	-.1769	-.2244	-.2244	-.2729	-.3102	
.150	-.3094	-.5193	-.1672	-.9563	-.6351	-.4598	
.175	-.2128	-.2691	-.4621	-.4035	-.4799	-.2429	
.200		-.2339	-.2074	-.2059	-.2362	-.2174	-.0921

ALPHA ( 2 ) = -4.030 BETA ( 2 ) = .192 MACH = .90000 Q = 600.22 P = 1058.5 RN/L = 3.5693

SECTION 2 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.5532	.4487	.4910	.4821	.4821	.3963	
.025	.0291	-.2707	-.3557	-.3391	-.3391	-.4491	
.050	.1547	-.0189	-.0465	-.1106	-.1106	-.3100	
.075	.0448	-.0821	-.0828	-.1089	-.1089	-.0900	
.100	-.1120	-.1157	-.1184	-.1196	-.1196	-.1763	
.125	-.2814	-.2795	-.2750	-.3296	-.3296	-.3434	
.150	-.3323	-.5113	-.1955	-.6655	-.5423	-.4634	
.175	-.2254	-.2544	-.5044	-.5320	-.4093	-.2140	
.200		-.2624	-.2359	-.2567	-.2501	-.1112	

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## TABULATED PRESSURE DATA - CA148 ( AMES 11-073-1 )

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AMES 11-073(CA148) -140A/B/C/R ORB VERTICAL (XEBV21)

ALPHA ( 1 ) = -4.042 BETA ( 3 ) = 4.289 MACH = .90000 0 = 600.22 P = 1058.5 RN/L = 3.5693

## SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .4545 .3332 .3123 .2210 .1561  
 .025 .1272 .0778 .0772 .0926 .07842  
 .050 .1305 .0573 .0785 .0895 .07780  
 .100 .1590 .0345 .0498 .0730 .07256  
 .150 .1649 .0368 .0439 .0530 .06049  
 .200 .1881 .0389 .0471 .0585 .06469  
 .250 .2135 .0435 .0529 .06478 .07291  
 .300 .2413 .0505 .06132 .0754 .0857  
 .350 .2701 .0581 .08163 .0965 .1001

ALPHA ( 2 ) = .024 BETA ( 1 ) = -3.875 MACH = .89917 0 = 599.08 P = 1058.5 RN/L = 3.5682

## SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .4248 .2667 .2708 .3102 .2709  
 .025 .4938 .1897 .2084 .2076 .1560  
 .050 .2030 .1577 .1743 .1867 .1419  
 .100 .1249 .1604 .0958 .0730 .0220  
 .150 .0012 .0062 .0143 .0304 .01243  
 .200 .1131 .0140 .0243 .0318 .0292  
 .250 .2970 .04314 .07850 .07015 .0344  
 .300 .2740 .04471 .0500 .04321 .02423  
 .350 .0743 .02195 .01935 .01623 .00830

ALPHA ( 2 ) = .031 BETA ( 2 ) = .186 MACH = .89917 0 = 599.08 P = 1058.5 RN/L = 3.5682

## SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .5174 .3402 .4302 .4150 .3289  
 .025 .0820 .0391 .0778 .0364 .0440  
 .050 .0820 .0391 .0778 .0364 .0440  
 .100 .0820 .0391 .0778 .0364 .0440  
 .150 .0820 .0391 .0778 .0364 .0440  
 .200 .0820 .0391 .0778 .0364 .0440  
 .250 .0820 .0391 .0778 .0364 .0440  
 .300 .0820 .0391 .0778 .0364 .0440  
 .350 .0820 .0391 .0778 .0364 .0440

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TABLED PRESSURE DATA - CA148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV21)

ALPHA ( 3 ) = .021 BETA ( 3 ) = 4.265 MACH = .89917 Q = 599.08 P = 1058.5 RN/L = 3.5682

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/84	1.580	3.170	4.590	6.020	6.970	8.390	9.250
K/CV							
.000	.4157	.2590		.2322		.1366	.0749
.025	-.2083	-.7254		-.8929		-.7859	-.6400
.050	-.1929	-.6426		-.8279		-.7772	-.6512
.100	-.1822	-.3885		-.5790		-.7473	-.6282
.200	-.3333	-.3907		-.5038		-.6357	-.5994
.300	-.4551	-.4265		-.3973		-.4478	-.4893
.400	-.5247	-.3542		-.1877		-.6303	-.2592
.500	-.5235	-.2781		-.4213		-.3553	-.3032
.600		-.2635		-.1604		-.0934	-.2231
.700						-.0827	-.1203

ALPHA ( 3 ) = 3.922 BETA ( 1 ) = -3.878 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION 2 - VERTICAL

DEPENDENT VARIABLE CP

Z/84	1.580	3.170	4.590	6.020	6.970	8.390	9.250
K/CV							
.000	.3720	.2151		.1819		.2591	.1902
.025	-.2103	.1093		.1879		.1814	.1307
.050	.2077	.1059		.1557		.1545	.1087
.100	.0719	.0285		.0658		.0524	-.0101
.200	-.0342	-.0393		.0309		-.0507	.1413
.300	-.2723	-.2331		-.2350		-.3197	.3263
.400	-.2618	-.1460		-.6125		-.5963	.6730
.500	-.2015	-.3379		-.3359		-.4030	.3540
.600		-.2349		-.2127		-.1130	.3393
.700						-.1248	-.0524

ALPHA ( 3 ) = 3.975 BETA ( 2 ) = .188 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

SECTION 3 - VERTICAL

DEPENDENT VARIABLE CP

Z/84	1.580	3.170	4.590	6.020	6.970	8.390	9.250
K/CV							
.000	.0716	.3130		.3669		.3554	.2574
.025	-.0351	-.3701		-.4333		-.3193	-.4196
.050	-.0567	-.1296		-.0911		-.1319	-.2424
.100	.0625	-.1571		-.1097		-.1269	-.1200
.200	-.2132	-.1823		-.1445		-.1471	-.2074
.300	-.3029	-.2384		-.2293		-.3643	.3605
.400	-.2719	-.2446		-.1469		-.6811	-.4808
.500	-.2514	-.2870		-.4150		-.4302	-.2434
.600		-.2279		-.1727		-.1111	-.1662
.700						-.1265	-.0245

ORIGINAL PAGE IS  
OF POOR QUALITY

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV21)

ALPHA ( 4 ) = 3.972 BETA ( 3 ) = 4.250 MACH = .89950 Q = 599.38 P = 1058.3 RN/L = 3.5682

## SECTION ( 1 ) VERTICAL

Z/BV .1500 .1550 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.3616	.2117	.1340	.0708	-.0462
.025	-.3075	-.7518	-.8611	-.7343	-.9069
.050	-.2254	-.7156	-.8915	-.7041	-.8914
.100	-.2097	-.4420	-.5937	-.6473	-.7330
.150	-.3667	-.4431	-.4360	-.6048	-.5676
.200	-.4663	-.3419	-.3037	-.4476	-.2996
.250	-.2818	-.2793	-.1730	-.2339	-.1655
.300	-.1935	-.2603	-.3577	-.3313	-.1959
.350	-.2704	-.2704	-.1781	-.1453	-.0707
.400					-.0056

ALPHA ( 4 ) = 7.905 BETA ( 1 ) = -3.870 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684

## SECTION ( 1 ) VERTICAL

Z/BV .1500 .1550 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.3327	.1635	.1407	.1878	.1289
.025	.1564	.0842	.1695	.1519	.1057
.050	.1859	.0690	.1298	.1281	.0785
.100	.0315	.0051	.0433	.0228	-.0287
.150	-.0258	-.0692	-.0430	-.0668	-.1557
.200	-.2253	-.2125	-.2467	-.3282	-.3305
.250	-.2353	-.4539	-.5918	-.6208	-.5554
.300	-.2127	-.2305	-.3486	-.3049	-.3217
.350		-.1944	-.1412	-.0931	-.0786
.400					-.0161

ALPHA ( 4 ) = 9.017 BETA ( 2 ) = .186 MACH = .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684

## SECTION ( 1 ) VERTICAL

Z/BV .1500 .1550 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.4400	.2484	.3137	.2905	.1955
.025	-.1416	-.3985	-.3667	-.3392	-.4426
.050	.0148	-.1911	-.1243	-.1563	-.2605
.100	-.0957	-.2239	-.1319	-.1604	-.1483
.150	-.2459	-.2109	-.1595	-.1717	-.2236
.200	-.3198	-.2928	-.3102	-.3835	-.3616
.250	-.2558	-.4209	-.5339	-.6629	-.3880
.300	-.2520	-.2675	-.3975	-.3700	-.2210
.350		-.2272	-.1726	-.1044	-.1362
.400					-.0061



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = 8.014 BETA ( 3 ) = 4.257 MACH \* .89943 Q = 599.41 P = 1058.5 RN/L = 3.5684  
(XEBV21)

## SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3423	.1692		.0593		-.0162	-.1469
.025	-.2681	-.7753		-.8974		-.6934	-.9013
.050	-.1537	-.7279		-.8715		-.6844	-.8808
.150	-.1961	-.4653		-.5870		-.6478	-.7351
.300	-.3754	-.4544		-.4465		-.6070	-.5403
.520	-.4769	-.3764		-.3679		-.3892	-.2313
.695	-.2693	-.2844	-.1702	-.4633	-.4199	-.2141	-.1290
.775	-.1917	-.2690	-.3360	-.2945	-.1948	-.1506	-.0594
.900		-.2572	-.1791	-.1361	-.0848	-.0584	-.0009

ALPHA ( 5 ) = 11.899 BETA ( 1 ) = -3.861 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

## SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3612	.1333		.0737		.1042	.0658
.025	-.0208	-.0620		.1218		.1343	.0968
.050	.0355	-.0206		.0924		.1123	.0708
.150	-.0588	-.0819		.0239		.0128	-.0420
.300	-.1820	-.1261		-.0630		-.0749	-.1736
.520	-.2785	-.2276		-.2597		-.3488	-.3250
.695	-.3076	-.4570	-.1753	-.5538	-.6071	-.4518	-.2965
.775	-.2177	-.2513	-.3487	-.2919	-.2716	-.2416	-.1629
.900		-.2345	-.2047	-.1531	-.1107	-.0544	-.0132

ALPHA ( 5 ) = 11.956 BETA ( 2 ) = .190 MACH = .90017 Q = 600.39 P = 1058.5 RN/L = 3.5727

## SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3745	.2296		.2708		.2466	.1399
.025	-.0728	-.3630		-.3984		-.3370	-.4424
.050	.0084	-.2080		-.1699		-.1507	-.2636
.150	-.0320	-.2418		-.1578		-.1673	-.1596
.300	-.2534	-.2743		-.1747		-.1782	-.2289
.520	-.3732	-.3076		-.3143		-.3942	-.3807
.695	-.2944	-.3808	-.1822	-.5520	-.6511	-.4265	-.2186
.775	-.2227	-.2584	-.3772	-.3403	-.3292	-.2619	-.1327
.900		-.2454	-.2037	-.1517	-.1026	-.0625	.0085

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XE8V21)

AMES 11-073(0A148) -14DA/B/C/R ORB VERTICAL

ALPHA ( 5 ) = 11.948 BETA ( 3 ) = 4.274 MACH = .90017 Q = 600.39 P = 1053.5 RN/L = 3.5727

SECTION : VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4790 .6020 .6970 .8390 .9250

X/CV

.000	.3358	.1437	.0095	-.0983	-.2130
.025	-.1451	-.6429	-.8884	-.6671	-.7760
.050	-.0753	-.5303	-.8671	-.6515	-.7719
.150	-.1436	-.4051	-.6318	-.6723	-.6477
.300	-.3282	-.4155	-.4729	-.6193	-.5658
.520	-.4306	-.4037	-.3511	-.4127	-.3179
.685	-.2996	-.3247	-.1839	-.4288	-.2439
.775	-.2116	-.2939	-.3027	-.2137	-.1766
.900		-.2570	-.2760	-.1559	-.0980
			-.1327	-.0905	-.0286

REFERENCE DATA  
 XREF = 4630.0000 SQ.FT. YMRP = 1076.6800 IN. X0  
 ZREF = 474.8000 IN. YMRP = .0000 IN. YC  
 XREF = 436.0000 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

PARAMETRIC DATA  
 RUDDER = .000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.045 BETA ( 1 ) = -7.856 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION 1 VERTICAL		DEPENDENT VARIABLE CP	
Z/BV		.6020	.6970
X/CV			
.000	-1.0319	-1.1854	-1.0209
.025	.4750	.4201	.3963
.050	.4209	.3659	.3444
.150	.2623	.2272	.2335
.300	.1216	.0935	.0965
.450	-.1335	-.1624	-.1903
.600	-.2360	-.2746	-.3061
.750	-.1855	-.1818	-.1520
.900	-.1425	-.11057	-.0833
			-.0720
			-.1035

SECTION 2 VERTICAL		DEPENDENT VARIABLE CP	
Z/BV		.6020	.6970
X/CV			
.000	.3569	.2281	.3829
.025	.3012	.2331	.2359
.050	.2751	.2096	.2108
.150	.1503	.0932	.0974
.300	.0230	.0088	.0047
.450	-.1932	-.2349	-.2521
.600	-.2393	-.3045	-.2759
.750	-.1677	-.1935	-.1667
.900	-.1322	-.0869	-.0633
			-.0434
			-.0192

ALPHA ( 1 ) = -3.970 BETA ( 2 ) = -3.843 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV22)

ALPHA ( 1 ) = -3.957 BETA ( 3 ) = .189 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/9V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/9V

.000 .4924 .4487 .4899 .4802 .4383  
 .025 -.0253 -.3119 -.3526 -.2357 -.4371  
 .050 .0853 -.0296 -.0810 -.0888 -.0914  
 .150 .0136 -.0788 -.0834 -.0964 -.0790  
 .300 -.0661 -.1330 -.1273 -.1135 -.1374  
 .520 -.2568 -.3157 -.3272 -.3365 -.2712  
 .685 -.2406 -.3329 -.3732 -.3585 -.2829  
 .775 -.1841 -.1937 -.2348 -.1811 -.1607  
 .900 -.1268 -.1075 -.0715 -.0459 -.0132 .0151

ALPHA ( 1 ) = -3.955 BETA ( 4 ) = 4.271 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/9V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/9V

.000 .3205 .1724 .1987 .0980 .1237  
 .025 .3031 -.6049 -.5961 -.5648 -.9871  
 .050 -.2714 -.4943 -.5321 -.5363 -.9604  
 .150 .2381 -.3767 -.4278 -.4564 -.3958  
 .300 .2208 -.2690 -.3486 -.3242 -.2754  
 .520 .3320 -.3748 -.4216 -.4043 -.3196  
 .685 .2631 -.3541 -.4216 -.3550 -.2777  
 .775 .2201 -.2146 -.2462 -.1824 -.1906  
 .900 .1504 -.1119 -.0919 -.0547 -.0437 .0259

ALPHA ( 1 ) = -4.005 BETA ( 5 ) = 8.350 MACH = .59680 Q = 594.79 P = 2385.6 RN/L = 4.8530

SECTION 1 ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/9V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/9V

.000 .0620 .4421 .3128 .4640 .3494  
 .025 .5712 -1.0781 -.7933 -.8440 -1.1930  
 .050 .5619 -.8631 -.7689 -.8105 -1.0612  
 .150 .7018 -.8316 -.7131 -.7508 -.7850  
 .300 .3731 -.4397 -.6248 -.6198 -.6031  
 .520 .3719 -.3539 -.4421 -.4586 -.3780  
 .685 .2657 -.3554 -.3945 -.3711 -.3202  
 .775 .2239 -.2719 -.2271 -.1915 -.2754  
 .900 .1313 -.1247 -.1260 -.1158 -.1178

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV22)

ALPHA ( 2 ) = -.025 BETA ( 1 ) = -7.896 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION 1 : VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO						
.000	-.0495	-.3042	-.2891	-.1419	-.1732	
.025	.4336	.3727	.4161	.3976	.3579	
.050	.3758	.3254	.3562	.3520	.3072	
.150	.2267	.1958	.2117	.2083	.1561	
.300	.0963	.0668	.1001	.0863	.0099	
.520	-.1444	-.1648	-.1777	-.1825	-.1717	
.685	-.2350	-.2747	-.3000	-.2328	-.2458	
.775	-.1610	-.1841	-.1546	-.1373	-.1456	
.900		-.1453	-.1067	-.0635	-.0681	-.1026

ALPHA ( 2 ) = -.014 BETA ( 2 ) = -3.863 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION 1 : VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO						
.000	.3328	.1636	.1783	.3014	.2231	
.025	.2654	.1995	.2283	.2084	.1853	
.050	.2331	.1789	.1854	.1875	.1736	
.150	.1122	.0722	.0852	.0791	.0597	
.300	-.0101	-.0234	-.0161	-.0135	-.0551	
.520	-.2117	-.2434	-.2513	-.2501	-.2094	
.685	-.2341	-.3071	-.3270	-.2738	-.2448	
.775	-.1734	-.1835	-.1632	-.1395	-.1145	
.900		-.1313	-.0978	-.0489	-.0171	-.0268

ALPHA ( 2 ) = .070 BETA ( 3 ) = .189 MACH = .59678 Q = 594.66 P = 2385.3 RN/L = 4.8568

SECTION 1 : VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO						
.000	.4489	.3342	.4306	.4140	.3677	
.025	-.0500	-.3332	-.3436	-.2200	-.4350	
.050	.0450	-.0635	-.1026	-.1031	-.1043	
.150	-.0269	-.1264	-.1016	-.1043	-.0895	
.300	-.1254	-.1506	-.1405	-.1148	-.1506	
.520	-.2763	-.3154	-.3296	-.3251	-.2709	
.685	-.2441	-.3325	-.3860	-.3347	-.2709	
.775	-.1675	-.1935	-.1994	-.1707	-.1492	
.900		-.1352	-.0798	-.0552	-.0186	-.0038

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

DATE 14 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV22)

RN/L = 4.8568

P = 2385.3

Q = 594.66

MACH = .59678

ALPHA ( 2 ) = .063

BETA ( 4 ) =

4.250

MACH =

.59678

Q =

594.66

P =

2385.3

RN/L =

4.8568

DEPENDENT VARIABLE CP

SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .2751 .1236 .1371 .0409 .2270  
 .025 .3539 .6103 .5918 .5475 -1.0513  
 .050 .3128 .5345 .5302 .5243 -.9812  
 .075 .2670 .3916 .4457 .4575 -.3738  
 .100 .2049 .2742 .3767 .3265 -.2828  
 .125 .3279 .3683 .4085 .3812 -.3034  
 .150 .3275 .3417 .4104 .3402 -.2685  
 .175 .2451 .2151 .2355 .1754 -.1333  
 .200 .2451 .1573 .1082 -.0581 -.0487 -.0295

ALPHA ( 2 ) = .059 BETA ( 5 ) = 8.310 MACH = .59678

RN/L = 4.8568

P = 2385.3

Q = 594.66

MACH =

.59678

Q =

594.66

P =

2385.3

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .1136 .5179 .4050 .5497 -.4385  
 .025 .6166 .1528 .8044 .8426 -1.0364  
 .050 .6162 .3147 .7810 .8173 -.9106  
 .075 .5549 .5254 .7339 .7744 -.7528  
 .100 .4023 .4917 .6907 .7186 -.5977  
 .125 .3803 .3980 .5507 .5039 -.3767  
 .150 .2516 .3571 .4226 .4023 -.3173  
 .175 .2508 .2252 .2364 .2216 -.2519  
 .200 .1388 .1353 .1672 .1310 -.1745

ALPHA ( 3 ) = 3.933 BETA ( 1 ) = -7.911 MACH = .59760

RN/L = 4.8680

P = 2385.0

Q = 596.20

MACH =

.59760

Q =

596.20

P =

2385.0

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV  
 .000 .0919 .3789 .3950 .2264 -.2682  
 .025 .3897 .3414 .3730 .3624 .3138  
 .050 .2754 .2354 .3229 .3229 .2717  
 .075 .1930 .1696 .1952 .1862 .1299  
 .100 .0715 .0528 .0874 .0770 -.0057  
 .125 .1534 .1150 .1765 .1657 -.1643  
 .150 .2235 .2117 .2815 .2208 -.2351  
 .175 .1657 .1771 .1502 .1378 -.1459  
 .200 .1395 .1395 .0834 .0706 -.0926

ALPHA ( 3 ) = 3.933 BETA ( 1 ) = -7.911 MACH = .59760

RN/L = 4.8680

P = 2385.0

Q = 596.20

MACH =

.59760

Q =

596.20

P =

2385.0

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.976 BETA ( 2 ) = -3.866 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680  
 (XEBV22)

## SECTION 1 ( VERTICAL

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .2561 .1196 .1125 .2345 .1533  
 .025 .2170 .1651 .2089 .1988 .1656  
 .050 .1910 .1471 .1628 .1643 .1427  
 .075 .1747 .1490 .1612 .1659 .1378  
 .100 .1591 .1438 .1261 .1249 .1067  
 .125 .1449 .1384 .1245 .1242 .1155  
 .150 .1365 .1312 .1202 .1250 .1292  
 .175 .1278 .1185 .1194 .1283 .1178  
 .200 .1167 .1103 .1059 .1020 .1025

ALPHA ( 3 ) = 3.935 BETA ( 3 ) = .172 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

## SECTION 1 ( VERTICAL

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .4170 .3492 .3799 .3643 .3031  
 .025 .3773 .3291 .3268 .2123 .3924  
 .050 .3147 .2844 .1098 .0963 .1082  
 .075 .2524 .2135 .1103 .1084 .0914  
 .100 .1458 .1595 .1462 .1207 .1459  
 .125 .2843 .3132 .3171 .3098 .2592  
 .150 .2455 .3333 .3711 .3152 .2483  
 .175 .1935 .2037 .2334 .1699 .1427  
 .200 .1441 .1059 .0771 .0494 .0112

ALPHA ( 3 ) = 4.026 BETA ( 4 ) = 4.240 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.8680

## SECTION 1 ( VERTICAL

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .2413 .0833 .0832 .0309 .0670  
 .025 .3658 .6016 .5815 .5335 .10409  
 .050 .3410 .5734 .5292 .5051 .9486  
 .075 .3018 .3946 .4722 .4606 .3604  
 .100 .2573 .2731 .3650 .3593 .2843  
 .125 .3137 .3497 .3813 .3598 .2779  
 .150 .2074 .3078 .3698 .3127 .2488  
 .175 .2088 .2268 .2237 .1721 .1167  
 .200 .1918 .1733 .0872 .0619 .0219

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ALPHA ( 3 ) = 4.030 BETA ( 5 ) = 8.292 MACH = .59760 Q = 596.20 P = 2385.0 RN/L = 4.6690 (XEBV22)

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
K/0V							
.000	-.1698	-.5815	-.4870	-.6240	-.5098		
.025	-.6424	-1.1045	-.8006	-.8333	-.8457		
.050	-.6578	-.9315	-.7890	-.8106	-.7736		
.100	-.8180	-1.0471	-.7573	-.8345	-.7046		
.150	-.4060	-.4404	-.7473	-.7914	-.5726		
.200	-.3571	-.3359	-.5622	-.4938	-.4015		
.250	-.2415	-.3508	-.4297	-.3773	-.3297		
.300	-.2160	-.2545	-.2375	-.2287	-.2448		
.350	-.1124	-.1473	-.1556	-.1345	-.1190		

ALPHA ( 4 ) = 7.901 BETA ( 1 ) = -7.896 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
K/0V							
.000	-.1193	-.4351	-.4202	-.2959	-.3331		
.025	.3639	.3135	.3351	.3174	.2685		
.050	.3033	.2535	.2873	.2883	.2353		
.100	.1726	.1547	.1671	.1657	.1081		
.150	.0581	.0413	.0726	.0570	-.0158		
.200	-.1518	-.1579	-.1574	-.1643	-.1594		
.250	-.2130	-.2114	-.2753	-.2150	-.2190		
.300	-.1551	-.1579	-.1466	-.1295	-.1349		
.350	-.1551	-.1580	-.0848	-.0803	-.0684		

ALPHA ( 4 ) = 7.913 BETA ( 2 ) = -3.861 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

SECTION 1 INVERTICAL DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
K/0V							
.000	.2460	.0777	.0533	.1733	.0900		
.025	.1723	.1341	.1834	.1714	.1462		
.050	.1544	.1204	.1408	.1484	.1249		
.100	.0470	.0256	.0514	.0507	.0265		
.150	-.0544	-.0263	-.0241	-.0305	-.0714		
.200	-.2142	-.2450	-.1378	-.2279	-.1972		
.250	-.1243	-.3110	-.3107	-.2534	-.2226		
.300	-.1620	-.1445	-.1813	-.1420	-.1225		
.350	-.1454	-.1454	-.0695	-.0516	-.0178		



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -14JA/B/C/R ORB VERTICAL

(XE8V22)

ALPHA ( 4 ) = 8.049 BETA ( 3 ) = .175 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000	.3915	.3055	.3236	.3053	.2424
.025	-.0962	-.3561	-.3306	-.2456	-.3952
.050	-.0127	-.1116	-.1143	-.1181	-.1210
.100	-.0350	-.1382	-.1197	-.1230	-.0978
.150	-.1635	-.1716	-.1524	-.1330	-.1526
.200	-.2956	-.3135	-.3178	-.2970	-.2379
.250	-.2240	-.2317	-.1187	-.3008	-.2900
.300	-.1694	-.1744	-.2264	-.1919	-.1682
.350	-.1194	-.1498	-.1094	-.0790	-.0523
.400					-.0194
.450					.0060

ALPHA ( 4 ) = 8.049 BETA ( 4 ) = 4.238 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000	.2184	.0315	.0095	-.1039	-.1652
.025	-.3961	-.16139	-.5864	-.5303	-.9646
.050	-.3630	-.5385	-.5320	-.5038	-.8512
.100	-.2826	-.3779	-.5052	-.4891	-.4464
.150	-.2823	-.3779	-.3590	-.3682	-.2474
.200	-.3354	-.3751	-.3675	-.3294	-.2500
.250	-.2890	-.2689	-.1243	-.3715	-.3124
.300	-.2232	-.16104	-.2353	-.2153	-.2730
.350		-.1195	-.1119	-.0847	-.0588
.400					-.0385
.450					-.0217

ALPHA ( 4 ) = 8.049 BETA ( 5 ) = 8.297 MACH = .59758 Q = 596.20 P = 2385.1 RN/L = 4.8692

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C

.000	-.1334	-.6348	-.5327	-.6679	-.5535
.025	-.5639	-.10430	-.7807	-.7978	-.7162
.050	-.5638	-.0976	-.7845	-.7776	-.6771
.100	-.9613	-.10325	-.7713	-.8151	-.6501
.150	-.3335	-.14022	-.8068	-.8025	-.5625
.200	-.3354	-.3594	-.5701	-.4580	-.4350
.250	-.2171	-.2524		-.3178	-.3523
.300	-.2040	-.2463	-.1303	-.3229	-.2446
.350		-.2463	-.2464	-.2595	-.1958
.400		-.2463	-.1341	-.1563	-.0815
.450					-.2172

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV22)

ALPHA ( 5 ) = 11.963 BETA ( 1 ) = -7.850 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

C/CV

.000	-.1236	-.5343	-.5319	-.3830	-.3615
.025	.2778	.2903	.3012	.2816	.2333
.050	.2878	.2828	.2710	.2563	.2073
.075	.3919	.1372	.1651	.1485	.0880
.100	.0115	.0452	.0665	.0539	-.0224
.125	-.1132	-.1133	-.1638	-.1503	-.1473
.150	-.1932	-.2615	-.2553	-.1993	-.2047
.175	-.1932	-.1696	-.1357	-.1267	-.1343
.200	-.1695	-.1160	-.0827	-.0782	-.0837

ALPHA ( 5 ) = 11.985 BETA ( 2 ) = -3.840 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

C/CV

.000	.2850	.0391	.0007	.1135	.0220
.025	.1931	.1163	.1754	.1648	.1339
.050	.1476	.0993	.1312	.1366	.1093
.075	.0194	.0102	.0404	.0406	.0175
.100	-.0966	-.0681	-.0336	-.0296	-.0774
.125	-.2639	-.2471	-.2349	-.2126	-.1825
.150	-.2034	-.3109	-.2410	-.2122	-.2170
.175	-.1674	-.1936	-.1829	-.1346	-.1115
.200	-.1674	-.1153	-.1077	-.0559	-.0138

ALPHA ( 5 ) = 12.000 BETA ( 3 ) = .181 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

C/CV

.000	.3793	.2763	.2857	.2596	.2003
.025	.1046	-.1469	-.3080	-.2571	-.3719
.050	.0199	-.1214	-.1193	-.1040	-.1327
.075	.0937	-.1474	-.1229	-.1203	-.1014
.100	.1771	-.1806	-.1513	-.1326	-.1450
.125	.2971	-.3130	-.3033	-.2827	-.2291
.150	.2667	-.3349	-.3383	-.2577	-.2170
.175	.1697	-.2272	-.1895	-.1255	-.0905
.200	.1697	-.1005	-.0732	-.0159	.0030

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV22)

ALPHA ( 5 ) = 12.027 BETA ( 4 ) = 4.252 MACH = .59774 Q = 596.43 P = 2384.9 RN/L = 4.8734

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/2V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
ALPHA	.2470	.0001		-.0490		-.1654	-.2336
.000	-.3674	-.6283		-.5966		-.5237	-.8926
.025	-.3416	-.6275		-.5443		-.5045	-.7672
.050	-.2835	-.5795		-.5275		-.5301	
.075	-.2338	-.4937		-.3524		-.3663	-.2159
.100	-.3355	-.3359		-.3604		-.3053	-.2482
.125	-.2031	-.2412	-.1150	-.3713	-.3152	-.2587	-.2221
.150	-.2023	-.1970	-.2255	-.2108	-.1900	-.1495	-.1257
.175		-.1510	-.1122	-.0963	-.0748	-.0349	-.0259
.200							

ALPHA ( 5 ) = 12.070 BETA ( 5 ) = 8.324 MACH = .59774

Q

P

= 2384.9

RN/L

= 4.8734

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/2V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
ALPHA	.2125	-.5559		-.6604		-.6563	-.5933
.000	-.0776	-.1039		-.8466		-.7024	-.5871
.025	-.0367	-.0745		-.8428		-.7024	-.5606
.050	-.0537	-.1057		-.8254		-.6958	-.5178
.075	-.0835	-.0407		-.6059		-.6741	-.4542
.100	-.4538	-.3409		-.5188		-.4772	-.3567
.125	-.2216	-.2543	-.1222	-.3205	-.3670	-.3926	-.3196
.150	-.0620	-.1311	-.2191	-.1961	-.2932	-.2985	-.2749
.175		-.0335	-.1711	-.1104	-.1798	-.1959	-.2179
.200							

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TABLE 1. CALCULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

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PAGES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(X16V23) 1 13 AUG 75 )

61903 30163477

[illegible]

## PARAMETRIC DATA

RUDDER =	.000	SPORESX =	.000
BOFLAP =	.000	L-ELVN =	.000
R-ELVN =	.000	MACH =	1.400

$\text{ETA} = 1 = -7.333$        $\text{MACH} = 1.3924$        $Q = 598.36$        $P = 440.89$        $\text{RN/L} = 2.9021$   
 SECTION /

## SECTION (1) REPTILES

SECTION (10.1.1.1.1)	DEPENDENT VARIABLE CP
10.1.1.1.1	.6970 .8390 .9250

6421	6523	6393
4509	4597	4593
4392	4833	4595
3892	3967	3817
3244	3483	2933
198	2503	1346
3358	- 3361	- 3710
2338	- 3275	- 3607
2771	- 3314	- 3352
1559	- 2893	- 2893
2998	- 3195	- 3195
297+	- 2915	- 2915

$$\beta_1 = 0.336, \quad \beta_2 = 0.415, \quad \text{MACH} = 1.3924$$

1960

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6700

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV23)

ALPHA ( 2 ) = .023 BETA ( 3 ) = 4.256 MACH = 1.3947 Q = 599.32 P = 440.18 RN/L = 2.9055

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.5875	.5329	.5342	.4549	.4549	.3568	
1.005	-.0357	-.1412	-.3145	-.4762	-.4762	-.5373	
1.010	.0296	-.1412	-.3513	-.4627	-.4627	-.4978	
1.015	.1448	-.1307	-.1033	-.3541	-.3541	-.3711	
1.020	.1462	-.1280	-.0800	-.0352	-.0352	-.1671	
1.025	.1374	-.1244	-.0456	-.0100	-.0100	-.0045	
1.030	.1407	-.1413	-.1575	-.4112	-.4194	-.3818	
1.035	.1356	-.1437	-.14230	-.4199	-.4059	-.3942	
1.040	.1458	-.14518	-.14289	-.4169	-.4040	-.3952	

SECTION 2 INVERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.5875	.5329	.5342	.4549	.4549	.3568	
1.005	-.0357	-.1412	-.3145	-.4762	-.4762	-.5373	
1.010	.0296	-.1412	-.3513	-.4627	-.4627	-.4978	
1.015	.1448	-.1307	-.1033	-.3541	-.3541	-.3711	
1.020	.1462	-.1280	-.0800	-.0352	-.0352	-.1671	
1.025	.1374	-.1244	-.0456	-.0100	-.0100	-.0045	
1.030	.1407	-.1413	-.1575	-.4112	-.4194	-.3818	
1.035	.1356	-.1437	-.14230	-.4199	-.4059	-.3942	
1.040	.1458	-.14518	-.14289	-.4169	-.4040	-.3952	

SECTION 3 INVERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.5875	.5329	.5342	.4549	.4549	.3568	
1.005	-.0357	-.1412	-.3145	-.4762	-.4762	-.5373	
1.010	.0296	-.1412	-.3513	-.4627	-.4627	-.4978	
1.015	.1448	-.1307	-.1033	-.3541	-.3541	-.3711	
1.020	.1462	-.1280	-.0800	-.0352	-.0352	-.1671	
1.025	.1374	-.1244	-.0456	-.0100	-.0100	-.0045	
1.030	.1407	-.1413	-.1575	-.4112	-.4194	-.3818	
1.035	.1356	-.1437	-.14230	-.4199	-.4059	-.3942	
1.040	.1458	-.14518	-.14289	-.4169	-.4040	-.3952	

SECTION 4 INVERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.5875	.5329	.5342	.4549	.4549	.3568	
1.005	-.0357	-.1412	-.3145	-.4762	-.4762	-.5373	
1.010	.0296	-.1412	-.3513	-.4627	-.4627	-.4978	
1.015	.1448	-.1307	-.1033	-.3541	-.3541	-.3711	
1.020	.1462	-.1280	-.0800	-.0352	-.0352	-.1671	
1.025	.1374	-.1244	-.0456	-.0100	-.0100	-.0045	
1.030	.1407	-.1413	-.1575	-.4112	-.4194	-.3818	
1.035	.1356	-.1437	-.14230	-.4199	-.4059	-.3942	
1.040	.1458	-.14518	-.14289	-.4169	-.4040	-.3952	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 670:

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(1X8V23)

ALPHA ( 3 ) = 3.971 BETA ( 3 ) = 4.247 MACH = 1.3946 O = 599.62 P = 440.42 RN/L = 2.9033

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.020	.5887	.5420	.4577	.3702	.2988
.025	-.1126	-.1598	-.3481	-.4798	-.5464
.050	-.0189	-.1442	-.3776	-.4758	-.5042
.150	.1457	.0335	-.1517	-.3664	-.3899
.300	.0991	-.0136	-.1030	-.0794	-.1311
.520	-.0740	-.0554	-.0863	-.0452	-.0505
.695	-.3490	-.4672	-.1636	-.4786	-.4409
.775	-.3443	-.4597	-.4507	-.4285	-.4046
.900	-.3993	-.4593	-.4423	-.4370	-.4130

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.869 MACH = 1.3941

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5944	.4895	.4279	.3760	.3661
.025	.2645	.2875	.2345	.2481	.2315
.050	.3949	.3072	.2381	.2405	.2415
.150	.2818	.2148	.1800	.1886	.1675
.300	.1511	.1265	.1262	.1545	.1267
.520	.0399	.0427	.0307	.0943	.0080
.695	-.4032	-.4023	-.1843	-.4556	-.3708
.775	-.3945	-.3985	-.3708	-.3629	-.4168
.900	-.4185	-.3777	-.3609	-.3627	-.4114

ALPHA ( 4 ) = 7.908 BETA ( 2 ) = .178 MACH = 1.3941

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6860	.5241	.4469	.3777	.3206
.025	.1895	.0402	-.0767	-.0950	-.1518
.050	.3508	.2154	-.0729	-.1029	-.1063
.150	.2362	.1169	.0585	.0493	.0492
.300	.1148	.0357	.0241	.0348	.0227
.520	-.0395	-.0533	-.0456	.0236	-.0378
.695	-.4160	-.4799	-.1741	-.4738	-.3942
.775	-.3591	-.4713	-.4166	-.4128	-.4174
.900	-.4362	-.4214	-.4123	-.4177	-.4276

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RN/L = 2.9093

RN/L = 2.9093

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6702

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V23)

ALPHA ( 1 ) = 7.872 BETA ( 3 ) = 4.245 MACH = 1.3941 Q = 599.51 P = 440.65 RN/L = 2.9093

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5574	.5080	.3864	.2899	.2455
.025	.1077	-.1557	-.3580	-.4671	-.5467
.050	.1518	-.1291	-.3953	-.4737	-.5038
.075	.2425	-.0358	-.1687	-.3214	-.3933
.100	.0440	-.0582	-.1152	-.1195	-.1133
.125	-.1173	-.1391	-.1266	-.0913	-.0984
.150	-.3718	-.4897	-.5022	-.4405	-.4495
.175	-.3564	-.4750	-.4545	-.4504	-.4333
.200		-.3994	-.4626	-.4595	-.4410
					-.4333

ALPHA ( 5 ) = 11.931 BETA ( 1 ) = -3.857 MACH = 1.3942 Q = 599.92 P = 440.89 RN/L = 2.9149

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6411	.4560	.3612	.2973	.2682
.025	.3294	.2534	.1868	.1861	.1720
.050	-.123	.2691	.1852	.1799	.1817
.075	.2554	.1646	.1296	.1296	.1298
.100	.0830	.0583	.0728	.0975	.0769
.125	-.0355	-.0232	-.0070	.0436	-.0301
.150	-.4102	-.4181	-.4639	-.3669	-.3839
.175	-.3932	-.4150	-.3771	-.3943	-.4299
.200		-.4335	-.3743	-.3943	-.4228
				-.3741	-.4249

ALPHA ( 5 ) = 11.959 BETA ( 2 ) = .183 MACH = 1.3942 Q = 599.92 P = 440.89 RN/L = 2.9149

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6715	.4825	.3775	.3059	.2590
.025	.1656	.0129	-.1045	-.1261	-.1773
.050	.3263	.1800	-.1043	-.1352	-.1330
.075	.2803	.0850	.0129	.0050	.0025
.100	.0898	.0010	-.0192	-.0125	-.0235
.125	-.0750	-.0352	-.0867	-.0213	-.0767
.150	-.4235	-.4577	-.4967	-.4130	-.4432
.175	-.3632	-.4515	-.4299	-.4394	-.4446
.200		-.4407	-.4322	-.4391	-.4433



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6703

ALPHA ( 5 ) = 11.865 BETA ( 3 ) = 4.258 MACH = 1.3942 Q = 599.92 P = 440.69 RN/L = 2.9149  
 (XEBV23)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6268	.4738	.3141	.2155	.1754
.025	.1169	-.1535	-.3613	-.4593	-.5342
.050	.1811	-.1412	-.3934	-.4621	-.5092
.100	.2205	-.0321	-.1962	-.3186	-.3743
.150	.2384	.0462	-.0790	-.1543	-.1705
.200	.2459	.1711	-.1515	-.1472	-.1305
.250	.2499	.4969	-.1905	-.4398	-.4474
.300	.2517	.4319	-.4833	-.4716	-.4667
.350	.2511	.4914	-.4769	-.4766	-.4522

ALPHA ( 6 ) = 15.857 BETA ( 1 ) = -3.836 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7704	.5140	.3336	.2432	.2276
.025	-.2093	.1397	.1448	.1405	.1260
.050	-.0609	.2595	.1455	.1334	.1334
.100	.2384	.1155	.0861	.0849	.0869
.150	.2052	-.0134	.0309	.0537	.0387
.200	.1029	.1074	-.0452	.0071	-.0514
.250	.4102	.4513	-.2063	-.3762	-.3976
.300	.3739	.4442	-.4183	-.4047	-.4257
.350	.4603	.4050	-.3854	-.3869	-.4298

ALPHA ( 6 ) = 15.871 BETA ( 2 ) = .184 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6944	.5058	.3314	.2430	.1939
.025	.1006	-.0170	-.1460	-.1560	-.2073
.050	.2906	.1518	-.1531	-.1662	-.1624
.100	.2745	.0613	-.0252	-.0335	-.0362
.150	.0734	-.0334	-.0545	-.0526	-.0601
.200	.1168	.1215	-.1167	-.0599	-.1128
.250	.4395	.4746	-.2020	-.4270	-.4471
.300	.3396	.4724	-.4612	-.4532	-.4572
.350	.4591	.4593	-.4484	-.4518	-.4530

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV23)

ALPHA ( 5 ) = 15.861 BETA ( 3 ) = 4.289 MACH = 1.3942 Q = 599.51 P = 440.65 RN/L = 2.9096

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7559	.5305	2898	.1644	.1289
.025	.1283	-.1585	-.3626	-.4559	-.5143
.050	.2576	-.1183	-.3928	-.4635	-.5117
.100	.2597	.0093	-.2068	-.2748	-.3571
.150	.0783	.0739	-.1625	-.1866	-.2163
.200	.1427	.1759	-.1763	-.1775	-.1626
.250	.4377	.5007	-.5178	-.4481	-.4609
.300	.3733	.4941	-.4869	-.4735	-.4528
.350		.4934	-.4847	-.4581	-.4645

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV24) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

## REFERENCE DATA

XREF = 2500.0000 SQ.FT.  
 YREF = 474.8000 IN.  
 ZREF = 935.0580 IN.  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = 1.250

ALPHA ( 1 ) = -3.982 BETA ( 1 ) = -3.644 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086  
 SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7611	.6289	.6062	.6229	.5940	.4250	.3950
.000	.5914	.4507	.4211	.4169	.3933	.3398	.3102
.025	.5952	.4534	.4114	.3917	.3730	.2768	.2282
.050	.5989	.4567	.4147	.3950	.3763	.2801	.2315
.100	.6026	.4604	.4184	.3987	.3800	.2838	.2352
.150	.6063	.4641	.4221	.4024	.3837	.2875	.2389
.200	.6100	.4678	.4258	.4061	.3874	.2912	.2426
.250	.6137	.4715	.4295	.4098	.3911	.2949	.2463
.300	.6174	.4752	.4332	.4135	.3948	.2986	.2500
.350	.6211	.4789	.4369	.4172	.3985	.3024	.2537
.400	.6248	.4826	.4406	.4209	.4022	.3062	.2574
.450	.6285	.4863	.4443	.4246	.4059	.3100	.2611
.500	.6322	.4900	.4480	.4283	.4096	.3138	.2648
.550	.6359	.4937	.4517	.4320	.4133	.3176	.2685
.600	.6396	.4974	.4554	.4357	.4170	.3214	.2722
.650	.6433	.5011	.4591	.4394	.4207	.3252	.2759
.700	.6470	.5048	.4628	.4431	.4244	.3290	.2796
.750	.6507	.5085	.4665	.4468	.4281	.3328	.2833
.800	.6544	.5122	.4702	.4505	.4318	.3366	.2870

ALPHA ( 2 ) = -3.977 BETA ( 2 ) = .190 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086  
 SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.8122	.6915	.6658	.6312	.5679	.0673	.1162
.000	.7286	.6074	.5820	.5474	.4841	.0139	.0614
.025	.7323	.6111	.5857	.5511	.4878	.1682	.1738
.050	.7360	.6148	.5894	.5548	.4915	.1599	.1355
.100	.7397	.6185	.5931	.5585	.4952	.1516	.1272
.150	.7434	.6222	.5968	.5622	.4989	.1433	.1209
.200	.7471	.6259	.6005	.5659	.5026	.1350	.1186
.250	.7508	.6296	.6042	.5696	.5063	.1267	.1123
.300	.7545	.6333	.6079	.5733	.5100	.1184	.1060
.350	.7582	.6370	.6116	.5770	.5137	.1101	.1007
.400	.7619	.6407	.6153	.5807	.5174	.1018	.0944
.450	.7656	.6444	.6190	.5844	.5211	.0935	.0881
.500	.7693	.6481	.6227	.5881	.5248	.0852	.0818
.550	.7730	.6518	.6264	.5918	.5285	.0769	.0755
.600	.7767	.6555	.6301	.5955	.5322	.0686	.0682
.650	.7804	.6592	.6338	.5992	.5359	.0603	.0609
.700	.7841	.6629	.6375	.6029	.5396	.0520	.0536
.750	.7878	.6666	.6412	.6066	.5433	.0437	.0463
.800	.7915	.6703	.6449	.6103	.5470	.0354	.0390

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TABULATED PRESSURE DATA ~ 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV24)

ALPHA ( 1 ) = -3.980 BETA ( 3 ) = 4.277 MACH = 1.2469 Q = 599.78 P = 551.11 RN/L = 3.0086

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7493	.6191	.5711	.4989	.4298
.025	.0737	-.1651	-.3643	-.6031	-.6842
.050	.1045	-.1575	-.3997	-.5971	-.6006
.100	.2043	.0016	-.1191	-.3536	-.4893
.200	.1416	.0229	-.0987	-.0578	-.0638
.300	-.0240	-.0505	-.0763	-.0730	-.0476
.400	-.1461	-.1784	-.5575	-.5066	-.5019
.500	-.3307	-.5339	-.5068	-.5373	-.5203
.600		-.5192	-.5192	-.5107	-.5026

ALPHA ( 2 ) = .038

BETA ( 1 ) = -3.875

MACH = 1.2468

Q = 599.96

P = 551.34

RN/L = 3.0225

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6993	.5543	.5218	.5206	.5083
.025	.6134	.3351	.3367	.3403	.3321
.050	.5258	.3660	.3277	.3343	.3274
.100	.4143	.2673	.2616	.2661	.2463
.200	.2595	.2025	.1970	.2124	.1679
.300	.0890	.0869	.0408	.1036	-.0116
.400	-.4711	-.5025	-.5619	-.4497	-.4938
.500	-.3597	-.4272	-.4471	-.4863	-.5381
.600		-.3856	-.4395	-.4497	-.5160

ALPHA ( 3 ) = .042

BETA ( 2 ) = .180

MACH = 1.2468

Q = 599.96

P = 551.34

RN/L = 3.0225

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7590	.6239	.5815	.5378	.4586
.025	.6292	.4270	-.0912	-.1057	-.1765
.050	.3738	.2337	-.0400	-.0931	-.1272
.100	.3258	.1519	.1017	.0987	.1082
.200	.642	.0862	.0782	.0901	.0755
.300	.0014	.0164	-.0191	.0443	-.0371
.400	-.1451	.5727	-.1515	-.4915	-.5224
.500	-.3504	-.5173	-.5162	-.5131	-.5316
.600		-.5036	-.5105	-.5276	-.5095

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBV24)

ALPHA ( 2 ) = .044 BETA ( 3 ) = 4.251 MACH = 1.2468 Q = 599.96 P = 551.34 RN/L = 3.0225

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6780	.5515	.4955	.4148	.3273
.025	-.0187	-.2010	-.3950	-.6027	-.8952
.050	.0156	-.1986	-.4427	-.6105	-.8244
.100	.1381	-.0740	-.1781	-.3461	-.4936
.150	.0917	-.0183	-.1413	-.1154	-.1001
.200	-.0744	-.1083	-.1183	-.1164	-.0924
.250	-.4752	-.5786	-.5915	-.5403	-.5243
.300	-.3934	-.5518	-.5313	-.5569	-.5401
		-.4411	-.5556	-.5469	-.5291

ALPHA ( 3 ) = 3.904 BETA ( 1 ) = -3.872 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6247	.4972	.4456	.4295	.4154
.025	.2853	.3040	.2552	.2690	.2618
.050	.4170	.3153	.2531	.2616	.2609
.100	.3230	.2230	.1903	.1979	.1847
.150	.1927	.1352	.1298	.1516	.1060
.200	.0336	.0161	-.0079	.0587	-.0502
.250	-.4950	-.5228	-.5778	-.4661	-.5039
.300	-.3545	-.4972	-.4796	-.5055	-.5498
		-.4123	-.4765	-.4690	-.5105

ALPHA ( 3 ) = 3.905 BETA ( 2 ) = .032 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0117

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7094	.5579	.4989	.4422	.3485
.025	.1665	-.0067	-.1315	-.1467	-.2211
.050	.3396	.1810	-.1033	-.1346	-.1697
.100	.2751	.0951	.0402	.0400	.0459
.150	.1093	.0222	.0165	.0302	.0167
.200	-.0498	-.0730	-.0698	-.0041	-.0807
.250	-.4804	-.5507	-.6033	-.5055	-.5430
.300	-.3548	-.5393	-.5365	-.5394	-.5512
		-.4219	-.5319	-.5301	-.5462

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV24)

ALPHA ( 3 ) = 3.315 BETA ( 3 ) = 4.245 MACH = 1.2475 O = 600.37 P = 551.11 RN/L = 3.0117

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.6120	.4955	.4157	.3278	.2286	
.025	-.0619	-.2413	-.4303	-.5976	-.7003	
.050	.0275	-.2261	-.4712	-.6104	-.6390	
.075	.1112	-.11079	-.2244	-.3664	-.4935	
.100	.0424	-.0669	-.1678	-.1578	-.1481	
.125	-.1504	-.11693	-.1621	-.1488	-.1543	
.150	-.3293	-.16118	-.1727	-.5684	-.5595	
.175	-.3296	-.5121	-.5799	-.5731	-.5557	
.200	-.4263	-.5747	-.5717	-.5727	-.5598	

ALPHA ( 1 ) = 7.977 BETA ( 1 ) = -3.867 MACH = 1.2474

RN/L = 3.0132

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.6718	.4574	.3755	.3371	.3254	
.025	.3344	.2444	.1818	.2012	.1975	
.050	.3313	.2815	.1832	.1982	.2020	
.075	.2892	.1846	.1312	.1395	.1305	
.100	.1175	.0587	.0713	.0982	.0548	
.125	-.0131	-.0262	-.0500	.0094	-.0905	
.150	-.4951	-.5331	-.5971	-.4850	-.5152	
.175	-.3732	-.5203	-.4935	-.5216	-.5274	
.200	-.4266	-.5003	-.4853	-.5249	-.5521	

ALPHA ( 2 ) = 7.822 BETA ( 2 ) = .178 MACH = 1.2474

RN/L = 3.0132

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.6656	.4908	.4171	.3479	.2637	
.025	.1737	-.0309	-.1567	-.1685	-.2335	
.050	.3254	.1184	-.1339	-.1689	-.1818	
.075	.2421	.0537	-.0079	-.0115	-.0086	
.100	.0553	-.0302	-.0349	-.0214	-.0338	
.125	-.1059	-.1169	-.1138	-.0475	-.1209	
.150	-.4357	-.5162	-.6103	-.5137	-.5544	
.175	-.3730	-.5427	-.5475	-.5589	-.5731	
.200	-.4266	-.5497	-.5428	-.5631	-.5640	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV24)

ALPHA ( 4 ) = 7.832 BETA ( 3 ) = 4.244 MACH = 1.2474 Q = 600.25 P = 551.11 RN/L = 3.0132

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
W/CV							
.000	.6373	.4600	.3339	.2420	.1515		
.025	.0775	-.2465	-.4525	-.5884	-.6720		
.050	.1282	-.2187	-.4972	-.5808	-.6427		
.075	.1690	-.0837	-.2563	-.3941	-.4529		
.100	.2068	.1235	-.1846	-.2017	-.1980		
.125	.2424	.2242	-.1993	-.1684	-.1890		
.150	.2759	.2244	-.1910	-.5789	-.5794		
.175	.3079	.2244	-.6017	-.5877	-.5833		
.200	.3379	.2244	-.6227	-.5965	-.5795		

ALPHA ( 5 ) = 11.916 BETA ( 1 ) = -3.850 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 2 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6370	.8390	.9250
W/CV							
.000	.6840	.4223	.3144	.2530	.2424		
.025	.2755	.1935	.1310	.1435	.1401		
.050	.3075	.2125	.1310	.1374	.1454		
.075	.3375	.2110	.0753	.0845	.0807		
.100	.3647	.0092	.0198	.0530	.0136		
.125	.3873	.0593	-.0792	-.0406	-.1282		
.150	.4073	.0593	-.1909	-.5004	-.5308		
.175	.4247	.0593	-.5070	-.5217	-.5310		
.200	.4395	.0593	-.5151	-.4940	-.5342		

ALPHA ( 6 ) = 11.924 BETA ( 2 ) = .186 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160

SECTION 3 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1610	.3170	.4530	.6020	.6970	.8390	.9250
W/CV							
.000	.6840	.4223	.3144	.2530	.2424		
.025	.2755	.1935	.1310	.1435	.1401		
.050	.3075	.2125	.1310	.1374	.1454		
.075	.3375	.2110	.0753	.0845	.0807		
.100	.3647	.0092	.0198	.0530	.0136		
.125	.3873	.0593	-.0792	-.0406	-.1282		
.150	.4073	.0593	-.1909	-.5004	-.5308		
.175	.4247	.0593	-.5070	-.5217	-.5310		
.200	.4395	.0593	-.5151	-.4940	-.5342		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.922 BETA ( 3 ) = 4.256 MACH = 1.2463 Q = 600.28 P = 552.05 RN/L = 3.0160  
 (XEBV24)

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z SV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X15V							
.000	.6534	.4324	.2746	.1655	.0903		
.025	.0624	-.0263	-.4600	-.5829	-.6741		
.050	.1719	-.2238	-.5027	-.5803	-.6517		
.150	.1639	-.1006	-.2892	-.3362	-.4045		
.200	-.0746	-.1501	-.2079	-.2465	-.2581		
.300	-.2131	-.3474	-.4257	-.4316	-.4176		
.400	-.4440	-.5329	-.5793	-.5838	-.6017		
.500	-.6779	-.6927	-.6126	-.6028	-.5829		
.600	-.3431	-.4324	-.5783	-.6092	-.5950		
.700							
.800							
.900							



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TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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AXES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV25) ( 13 AUG 75 )

REFERENCE DATA

WARP = 1076.6900 IN. XO  
WARP = 6000 IN. YO  
WARP = 375.0000 IN. ZO  
SCALE = 10300

PANOMETRIC DATA

RUDDER = .000 SPOBRK = .000  
BDFLAP = .000 L-ELVN = .000  
R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -3.982 BETA ( 1 ) = -3.842 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION 11 VERTICAL

Z BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5364 .5506 .5157  
.025 .3408 .3299 .2853  
.050 .3276 .3186 .2872  
.075 .2572 .2330 .2066  
.100 .1752 .1664 .0977  
.125 .0409 .0033 .1230  
.150 .7533 .7189 .7319  
.175 .6069 .6709 .7110  
.200 .5815 .6234 .6689  
.225 .2015 .2191 .2306  
.250 .6282 .6423 .6709  
.275 .5706 .5815 .6234  
.300 .4149 .4191 .4615

ALPHA ( 1 ) = -3.982 BETA ( 2 ) = .191 MACH = 1.0978 Q = 600.10 P = 711.43 RN/L = 3.1881

SECTION 11 VERTICAL

Z BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6151 .5725 .4972  
.025 .5217 .4942 .4446  
.050 .3652 .3227 .2446  
.075 .2763 .2175 .1800  
.100 .1144 .0540 .0590  
.125 .0384 .0721 .0144  
.150 .7043 .7343 .7269  
.175 .6217 .6739 .7055  
.200 .5251 .5637 .6942  
.225 .4255 .4637 .6942  
.250 .3255 .3637 .6942  
.275 .2255 .2637 .6942  
.300 .1255 .1637 .6942

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.987 BETA ( 3 ) = 4.273 MACH = 1.0978 Q = 500.10 P = 711.43 RN/L = 3.1881  
 SECTION 1 VERTICAL (XEBV25)

Z/B\* .1540 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

1.000 .8553 .5395 .4965 .4135 .3711  
 1.020 .8243 .5134 .4768 .3882 .3407  
 1.050 .7511 .4527 .4226 .3350 .2874  
 1.100 .6513 .3647 .3409 .2547 .2071  
 1.150 .5395 .2439 .2266 .1530 .1056  
 1.200 .4135 .1834 .1693 .1024 .0503  
 1.250 .2874 .0727 .0534 .0260 .0000  
 1.300 .1530 .0000 .0000 .0000 .0000  
 1.350 .0000 .0000 .0000 .0000 .0000  
 1.400 .0000 .0000 .0000 .0000 .0000  
 1.450 .0000 .0000 .0000 .0000 .0000  
 1.500 .0000 .0000 .0000 .0000 .0000  
 1.550 .0000 .0000 .0000 .0000 .0000  
 1.600 .0000 .0000 .0000 .0000 .0000  
 1.650 .0000 .0000 .0000 .0000 .0000  
 1.700 .0000 .0000 .0000 .0000 .0000  
 1.750 .0000 .0000 .0000 .0000 .0000  
 1.800 .0000 .0000 .0000 .0000 .0000  
 1.850 .0000 .0000 .0000 .0000 .0000  
 1.900 .0000 .0000 .0000 .0000 .0000  
 1.950 .0000 .0000 .0000 .0000 .0000  
 2.000 .0000 .0000 .0000 .0000 .0000

ALPHA ( 3 ) = 0.000 BETA ( 1 ) = -3.867 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION 1 VERTICAL

Z/B\* .1540 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

1.000 .8517 .4517 .4593 .4260  
 1.020 .8243 .4267 .4207 .3305  
 1.050 .7511 .3995 .4203 .2238  
 1.100 .6513 .3762 .1665 .1445  
 1.150 .5395 .3406 .1024 .0503  
 1.200 .4135 .2927 .0393 .0164  
 1.250 .2874 .2385 .0000 .0000  
 1.300 .1530 .1947 .0000 .0000  
 1.350 .0000 .1647 .0000 .0000  
 1.400 .0000 .1344 .0000 .0000  
 1.450 .0000 .1040 .0000 .0000  
 1.500 .0000 .0736 .0000 .0000  
 1.550 .0000 .0432 .0000 .0000  
 1.600 .0000 .0128 .0000 .0000  
 1.650 .0000 .0000 .0000 .0000  
 1.700 .0000 .0000 .0000 .0000  
 1.750 .0000 .0000 .0000 .0000  
 1.800 .0000 .0000 .0000 .0000  
 1.850 .0000 .0000 .0000 .0000  
 1.900 .0000 .0000 .0000 .0000  
 1.950 .0000 .0000 .0000 .0000  
 2.000 .0000 .0000 .0000 .0000

ALPHA ( 1 ) = 0.000 BETA ( 3 ) = 4.161 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813

SECTION 1 VERTICAL

Z/B\* .1540 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

1.000 .8517 .4517 .4593 .4260  
 1.020 .8243 .4267 .4207 .3305  
 1.050 .7511 .3995 .4203 .2238  
 1.100 .6513 .3762 .1665 .1445  
 1.150 .5395 .3406 .1024 .0503  
 1.200 .4135 .2927 .0393 .0164  
 1.250 .2874 .2385 .0000 .0000  
 1.300 .1530 .1947 .0000 .0000  
 1.350 .0000 .1647 .0000 .0000  
 1.400 .0000 .1344 .0000 .0000  
 1.450 .0000 .1040 .0000 .0000  
 1.500 .0000 .0736 .0000 .0000  
 1.550 .0000 .0432 .0000 .0000  
 1.600 .0000 .0128 .0000 .0000  
 1.650 .0000 .0000 .0000 .0000  
 1.700 .0000 .0000 .0000 .0000  
 1.750 .0000 .0000 .0000 .0000  
 1.800 .0000 .0000 .0000 .0000  
 1.850 .0000 .0000 .0000 .0000  
 1.900 .0000 .0000 .0000 .0000  
 1.950 .0000 .0000 .0000 .0000  
 2.000 .0000 .0000 .0000 .0000

TABULATED PRESSURE DATA - 00148 ( AMES 11-073-1 )

ALPHA ( 2 ) = .055 BETA ( 3 ) = 4.249 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1813  
(XEBV25)

SECTION ( 1 ) - OPTICAL

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV	.000	.0228	.4707	.4152	.3251	.2604
	.000	-.0860	-.3574	-.5416	-.7828	-.8377
	.050	-.0409	-.3213	-.5777	-.7937	-.8059
	.100	-.0338	-.3128	-.5938	-.8038	-.8139
	.150	-.0283	-.3059	-.6029	-.8100	-.8177
	.200	-.0245	-.3003	-.6148	-.8181	-.8216
	.250	-.0216	-.2960	-.6282	-.8262	-.8214
	.300	-.0195	-.2926	-.6416	-.8348	-.8148
	.350	-.0176	-.2896	-.6557	-.8431	-.7731
	.400	-.0157	-.2863	-.6696	-.8506	-.7259
	.450	-.0138	-.2821	-.6838	-.8576	

ALPHA ( 3 ) = 3.948 BETA ( 1 ) = -3.871 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION ( 1 ) - VERTICAL

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV	.000	.0228	.4707	.3733	.3335	.3400
	.000	-.0860	-.3574	-.1755	-.1372	-.1686
	.050	-.0409	-.3213	-.1724	-.1781	-.1631
	.100	-.0338	-.3128	-.1659	-.1013	-.0794
	.150	-.0283	-.3059	-.1594	-.0434	-.0043
	.200	-.0245	-.3003	-.1539	-.0770	-.2032
	.250	-.0216	-.2960	-.1484	-.1577	-.7711
	.300	-.0195	-.2926	-.1429	-.1693	-.7492
	.350	-.0176	-.2896	-.1374	-.1806	-.7315
	.400	-.0157	-.2863	-.1319	-.1916	

ALPHA ( 2 ) = 3.948 BETA ( 2 ) = 3.871 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION ( 1 ) - VERTICAL

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV	.000	.0228	.4707	.3733	.3335	.3400
	.000	-.0860	-.3574	-.1755	-.1372	-.1686
	.050	-.0409	-.3213	-.1724	-.1781	-.1631
	.100	-.0338	-.3128	-.1659	-.1013	-.0794
	.150	-.0283	-.3059	-.1594	-.0434	-.0043
	.200	-.0245	-.3003	-.1539	-.0770	-.2032
	.250	-.0216	-.2960	-.1484	-.1577	-.7711
	.300	-.0195	-.2926	-.1429	-.1693	-.7492
	.350	-.0176	-.2896	-.1374	-.1806	-.7315
	.400	-.0157	-.2863	-.1319	-.1916	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV25)

ALPHA ( 3 ) = 3.950 BETA ( 3 ) = 4.239 MACH = 1.0978 Q = 599.38 P = 710.48 RN/L = 3.1840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5849	.4287		.3420		.2426	.1526
.025	-.1036	-.3746		-.5630		-.7788	-.8488
.050	-.0473	-.3395		-.6132		-.7592	-.8199
.100	-.0330	-.1829		-.3729		-.4980	-.5264
.150	-.0646	-.1772		-.2796		-.2730	-.2692
.200	-.2597	-.2595		-.2739		-.2796	-.3103
.250	-.4179	-.7230		-.8401		-.7847	-.7535
.300	-.363	-.5209		-.7623		-.7653	-.7485
		-.4649		-.5403		-.7704	-.7586
						-.7538	-.7423

ALPHA ( 1 ) = 7.932 BETA ( 1 ) = -3.857 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6075	.3784		.2966		.2692	.2463
.025	.3377	.1514		.0955		.1295	.1284
.050	.3595	.1651		.0938		.1207	.1153
.100	.2101	.0626		.0351		.0512	.0353
.150	.0192	-.0290		-.0075		-.0015	-.0360
.200	-.1235	-.1289		-.1694		-.1235	-.2315
.250	-.5256	-.7216		-.8072		-.7264	-.7796
.300	-.3684	-.5747		-.6845		-.7071	-.7548
		-.4316		-.6528		-.6935	-.7548
				-.5913		-.6548	-.7273
						-.6522	-.7115
							-.7273

ALPHA ( 2 ) = 7.538 BETA ( 2 ) = .185 MACH = 1.0986 Q = 599.84 P = 710.01 RN/L = 3.1812

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6418	.4264		.3574		.2943	.2003
.025	.1280	-.1001		-.2732		-.2995	-.3548
.050	.2615	.0522		-.2103		-.2931	-.3062
.100	.1548	-.0458		-.1048		-.1102	-.1032
.150	-.0411	-.1223		-.1290		-.1138	-.1332
.200	-.2014	-.2194		-.2338		-.1807	-.2645
.250	-.4788	-.7577		-.8272		-.7800	-.7885
.300	-.3980	-.5320		-.7292		-.7534	-.7793
		-.4493		-.7424		-.7571	-.7552
				-.5489		-.7363	-.7552
						-.7339	-.7885
						-.7513	-.7793
						-.7534	-.7793
						-.7534	-.7793

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XE8V25)

ALPHA ( 4 ) = 7.937 BETA ( 3 ) = 4.238 MACH = 1.0986 Q = 599.46 P = 710.01 RN/L = 3.1812

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1560	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5955	.3768		.2605		.1584	.0468
.025	-.0402	-.3827		-.5918		-.7604	-.8673
.050	.0198	-.3296		-.6345		-.7350	-.8383
.100	.0622	-.1995		-.4102		-.4619	-.4622
.300	-.1331	-.2357		-.2927		-.3402	-.3321
.500	-.3135	-.3379		-.3164		-.2910	-.3228
.695	-.4488	-.7205	-.1675	-.8620	-.7877	-.7769	-.7813
.775	-.3884	-.5173	-.7141	-.7779	-.7825	-.7585	-.7649
.900		-.5031	-.5385	-.5790	-.7017	-.7737	-.7594

ALPHA ( 5 ) = 11.970 BETA ( 1 ) = -3.845 MACH = 1.0981

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6424	.3599		.2269		.1758	.1569
.025	.1890	.0305		.0559		.0856	.0943
.050	.2830	.1166		.0588		.0773	.0826
.100	.1454	.0162		.0034		.0043	.0088
.300	-.0515	-.0759		-.0478		-.0378	-.0483
.500	-.1535	-.1490		-.2038		-.1405	-.2499
.695	-.5248	-.7271	-.1854	-.8202	-.6818	-.7016	-.7786
.775	-.4083	-.6530	-.6553	-.6761	-.6879	-.6864	-.7466
.900		-.4534	-.6539	-.6423	-.6280	-.6941	-.7227

ALPHA ( 5 ) = 11.981 BETA ( 2 ) = .187 MACH = 1.0981

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6279	.3919		.2889		.2059	.1012
.025	.0993	-.1845		-.3138		-.3309	-.3885
.050	.2341	.0123		-.2576		-.3392	-.3469
.100	.1300	-.0840		-.1576		-.1673	-.1577
.300	-.0759	-.1872		-.1830		-.1700	-.1813
.500	-.2503	-.2543		-.2709		-.2228	-.3005
.695	-.4888	-.7106	-.1646	-.8397	-.7461	-.7925	-.8028
.775	-.4034	-.5458	-.7573	-.7492	-.7700	-.7673	-.7912
.900		-.4583	-.5402	-.7326	-.7499	-.7693	-.7630

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL (XEBV25)

ALPHA ( 5 ) = 11.975    PETA ( 3 ) = 4.250    MACH = 1.0981    Q = 599.46    P = 710.25    RN/L = 3.1817

SECTION: 1 D VERTICAL

DEPENDENT VARIABLE CP

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.6239	.3524	.1896	.0638	-.0562
.025	-.0160	-.4097	-.6226	-.7453	-.8656
.050	.0711	-.3504	-.6590	-.7410	-.8903
.150	.0575	-.2222	-.4501	-.4842	-.5496
.300	-.1650	-.2771	-.3324	-.4394	-.4676
.520	-.3535	-.3766	-.3548	-.3670	-.3616
.6805	-.5197	-.7003	-.6846	-.7796	-.8144
.775	-.7376	-.5223	-.6724	-.8070	-.7743
.900		-.5369	-.5589	-.6200	-.7898
					-.7812

DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 (XEBV26) ( 13 AUG 75 )  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

REF = 1000.000 SQ.FT. XMRP = 1075.6000 IN. XO  
 REF = 1000.000 IN. YMRP = .0000 IN. YO  
 REF = 935.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -3.845 MACH = .89940 0 = 599.79 P = 1059.2 RN/L = 3.5659  
 SECTION 1 INVERTICAL  
 Z-B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .4834 .3547 .3658 .4087 .3561  
 .025 .3479 .2130 .2302 .2252 .1595  
 .050 .3264 .2339 .2059 .1976 .1578  
 .075 .1872 .1113 .1116 .0840 .0441  
 .100 .0424 .0148 .0117 -.0162 -.1021  
 .125 .1632 .1716 .2387 .2813 .3256  
 .150 .3190 .5120 .2030 .10310 -1.0912 -.5296  
 .175 .12134 .3271 .4383 .4443 .5191 .6066 .3003  
 .200 .12439 .12171 .2342 .2749 .2709 .1317

ALPHA ( 1 ) = -3.977 BETA ( 2 ) = .190 MACH = .89940 0 = 599.79 P = 1059.2 RN/L = 3.5659  
 SECTION 1 INVERTICAL  
 Z-B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .5491 .4507 .4943 .4799 .4020  
 .025 .3250 .2569 .3425 .3316 .4490  
 .050 .1512 .1060 .0409 .1072 .3167  
 .075 .0332 .10742 .0798 .1016 .0859  
 .100 .1139 .1333 .1136 .1113 .1708  
 .125 .2544 .2797 .3278 .3502  
 .150 .3224 .4935 .2119 .7845 .7580 .4899  
 .175 .1324 .5264 .5264 .4261 .4261 .2287  
 .200 .1253 .12525 .2573 .2842 .2643 .1337

PARAMETRIC DATA

RUDDER = .000 SPOBRK = .000  
 BDFLAP = .000 L-ELVN = .800  
 R-ELVN = .000 MACH = .900

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XE8V26)

ALPHA ( 1 ) = -3.985 BETA ( 3 ) = 4.276 MACH = .89940 Q = 599.79 P = 1059.2 RN/L = 3.5659

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4691	.3287	.3129	.2066	.1510
.025	-.2040	-.6979	-.9045	-.9304	-.9096
.050	-.1287	-.6081	-.8348	-.9112	-.9577
.100	-.1535	-.5483	-.7519	-.7529	-.7976
.150	-.2573	-.7553	-.4541	-.5438	-.5410
.200	-.4135	-.4412	-.4714	-.4622	-.4236
.250	-.4225	-.4443	-.6103	-.6606	-.2895
.300	-.2374	-.7537	-.5594	-.4610	-.1976
.350	-.2374	-.6585	-.1854	-.2021	-.1158
.400					

ALPHA ( 2 ) = .061 BETA ( 1 ) = -3.869 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4241	.2749	.2763	.3342	.2746
.025	.2817	.1456	.1988	.2062	.1524
.050	.2646	.1497	.1759	.1709	.1303
.100	.1275	.6633	.0756	.0847	.0202
.150	-.0092	-.0127	-.0109	-.0315	.1180
.200	-.1905	-.1831	-.2459	-.3019	-.3406
.250	-.2227	-.4653	-.1793	-.10073	-.7574
.300	-.2549	-.2652	-.4406	-.4294	-.5064
.350			-.3940	-.5368	-.2995
.400			-.2136	-.1703	-.2032
.450					

ALPHA ( 2 ) = .067 BETA ( 2 ) = .174 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5072	.3590	.4248	.4076	.3199
.025	-.0240	-.3345	-.3660	-.3452	-.4570
.050	.0974	-.0975	-.0924	-.1472	-.2883
.100	-.0181	.1435	.1138	.1346	.1198
.150	.1845	.1759	.1448	.1467	.2050
.200	-.3069	.2900	.3035	.3571	.3778
.250	-.3048	.4662	.7420	-.5166	-.3505
.300	-.2405	-.7314	-.5197	-.5552	-.2313
.350			-.1819	-.2823	-.2356
.400					



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV26)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .063 BETA ( 3 ) = 4.252 MACH = .89877 Q = 599.18 P = 1059.7 RN/L = 3.5651

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4121 .2641 .2225 .1303 .0741  
 .025 -.2877 -.7391 -.9068 -.8032 -.7079  
 .050 -.1964 -.6534 -.8543 -.7839 -.6769  
 .100 -.1510 -.3822 -.5832 -.7573 -.6490  
 .150 -.3073 -.4014 -.5024 -.6319 -.6132  
 .200 -.4593 -.4311 -.4047 -.4819 -.4878  
 .250 -.3101 -.3775 -.6148 -.3154 -.3170  
 .300 -.2014 -.2861 -.4128 -.4653 -.2217  
 .350 -.2631 -.1831 -.1125 -.1128 -.1405

ALPHA ( 3 ) = 3.954 BETA ( 1 ) = -3.877 MACH = .89787

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3685 .2235 .1856 .2566 .1924  
 .025 .2155 .1149 .1967 .1761 .1283  
 .050 .2050 .1120 .1609 .1530 .1018  
 .100 .0699 .0254 .0631 .0407 .0050  
 .150 -.0374 -.0438 -.0231 -.0509 -.1453  
 .200 -.1333 -.1919 -.2506 -.3240 -.3406  
 .250 -.2728 -.4404 -.6179 -.7253 -.3926  
 .300 -.1994 -.2692 -.4348 -.4422 -.2440  
 .350 -.2279 -.1943 -.1324 -.1365 -.0744

ALPHA ( 3 ) = 3.955 BETA ( 2 ) = .185 MACH = .89787

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4776 .3143 .3654 .3501 .2464  
 .025 -.0993 -.3864 -.3537 -.3442 -.4486  
 .050 .0466 .1465 -.0991 -.1604 -.2836  
 .100 -.0622 .1737 -.1211 -.1509 -.1313  
 .150 -.2147 .1263 .1476 .1621 .2153  
 .200 .3045 .2902 .3155 .3828 .3866  
 .250 .2797 .4521 .6462 .5111 .2728  
 .300 .2262 .2375 .4773 .5264 .3184  
 .350 .2356 .1675 .2077 .1581 .0654

RN/L = 3.5652

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.963 BETA ( 3 ) = 4.213 MACH = .89787 Q = 598.42 P = 1060.5 RN/L = 3.5652  
 (XEBV26)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3630 .2115 .1299 .0708 -.0527  
 .025 -.3105 -.7615 -.8745 -.7579 -.9216  
 .050 -.2272 -.7234 -.8659 -.7080 -.9132  
 .100 -.2142 -.4560 -.5678 -.6494 -.7363  
 .150 -.3533 -.4415 -.4325 -.6166 -.5760  
 .200 -.4431 -.2535 -.3992 -.4758 -.3116  
 .250 -.2593 -.2920 -.1674 -.5284 -.2533 -.1646  
 .300 -.1357 -.2651 -.3476 -.3602 -.2358 -.1688 -.0759  
 .350 -.2670 -.1581 -.1732 -.0876 -.0771 -.0157

ALPHA ( 4 ) = 7.925 BETA ( 1 ) = -3.870 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3397 .1622 .1170 .1892 .1143  
 .025 .1635 .0993 .1543 .1483 .1088  
 .050 .1632 .0858 .1307 .1269 .0785  
 .100 .0324 .0079 .0457 .0298 -.0314  
 .150 -.0974 -.0554 -.0412 -.0636 -.1686  
 .200 -.2189 -.1191 -.2588 -.3517 -.3531  
 .250 -.1657 -.4210 -.5952 -.6071 -.6373 -.3498  
 .300 -.2058 -.2492 -.3984 -.3225 -.3035 -.2073  
 .350 -.2243 -.1243 -.1764 -.1144 -.1274 -.0290

ALPHA ( 5 ) = 7.338 BETA ( 2 ) = .179 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .4372 .2178 .3110 .2848 .1809  
 .025 .1233 .1300 .1340 .1351 .4231  
 .050 .0239 .11573 .11099 .11385 .2328  
 .100 .0688 .11964 .1239 .1530 .1450  
 .150 .2400 .2048 .1499 .1755 .2309  
 .200 .3180 .2539 .13195 .13965 .3846  
 .250 .2556 .1509 .1637 .6942 .4392 .2376  
 .300 .1217 .2755 .14504 .13862 .2783 .1770  
 .350 .1173 .1173 .1173 .1173 .1173 .1173 .0245

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV26)

ALPHA ( 4 ) = 7.933 BETA ( 3 ) = 4.243 MACH = .89930 Q = 600.20 P = 1060.2 RN/L = 3.5747

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.3425	.1646	.0560	-.0099	-.1565
.025	-.2539	-.7773	-.8623	-.7147	-.9261
.050	-.1420	-.7094	-.7949	-.6792	-.9096
.100	-.2018	-.4639	-.5659	-.6454	-.7441
.150	-.3747	-.4391	-.4436	-.6204	-.5402
.200	-.4548	-.2342	-.3867	-.4141	-.2608
.250	-.2491	-.2923	-.5174	-.2349	-.1417
.300	-.1769	-.2568	-.3405	-.2220	-.0514
.350	-.1263	-.2534	-.1477	-.1130	-.0014

ALPHA ( 5 ) = 11.953 BETA ( 1 ) = -3.854 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.3528	.1373	.0609	.0973	.0492
.025	-.0159	-.0308	.1213	.1332	.0936
.050	.0400	-.0009	.0869	.1101	.0635
.100	-.0686	-.0776	.0181	.0086	-.0474
.150	-.1804	-.1199	-.0604	-.0761	-.1884
.200	-.2768	-.2132	-.2705	-.3782	-.3597
.250	-.4272	-.4435	-.1797	-.5995	-.3296
.300	-.2742	-.2749	-.3848	-.2893	-.1886
.350	-.2172	-.2749	-.3365	-.2709	-.1886
.400	-.2471	-.2255	-.1835	-.1317	-.0293

ALPHA ( 6 ) = 11.965 BETA ( 2 ) = .189 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.3778	.2394	.2669	.2469	.1379
.025	-.0620	-.3583	-.3662	-.3202	-.4227
.050	.0124	-.1965	-.1489	-.1360	-.2301
.100	-.0353	-.2368	-.1455	-.1667	-.1595
.150	-.2533	-.2478	-.1653	-.1770	-.2373
.200	-.3554	-.2904	-.3257	-.4079	-.3940
.250	-.4275	-.3544	-.1826	-.6862	-.2368
.300	-.2745	-.2749	-.4087	-.3502	-.1626
.350	-.2223	-.2632	-.2035	-.1215	-.0098

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EXTRAPOLATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV26)

ALPHA ( 5 ) = 11.049 BETA ( 3 ) = 4.257 MACH = .89857 Q = 599.22 P = 1060.2 RN/L = 3.5673

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/9V .1580 .3170 .4590 .6020 .6970 .8390 .9250

1 CV

.000	.3423	.1328	.0150	-.1053	-.2164
.025	-.1312	-.6225	-.8957	-.6817	-.8215
.050	-.0545	-.5171	-.6889	-.6751	-.8101
.075	-.1454	-.3934	-.6171	-.6908	-.6608
.100	-.3217	-.4205	-.4254	-.6470	-.5870
.125	-.4345	-.4036	-.3574	-.4822	-.3155
.150	-.2833	-.3236	-.5236	-.2514	-.1957
.175	-.2132	-.3118	-.3224	-.2228	-.1250
.200		-.2749	-.1688	-.1022	-.0531
.225					
.250					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V27) ( 13 AUG 75 )

## REFERENCE DATA

REF = 1000.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 REF = 474.6200 IN. YMRP = .0000 IN. YO  
 BREF = 936.0588 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = .000  
 BDFLAP = .000 L-ELVN = .000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -7.853 MACH = .59658 Q = 594.56 P = 2386.3 RNV/L = 4.8484  
 ALPHA ( 2 ) = -3.969 BETA ( 2 ) = -3.841 MACH = .59658 Q = 594.56 P = 2386.3 RNV/L = 4.8484

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.020	.0297	-.2520	-.1999	-.0250	-.0672	
.025	.4765	.4160	.4542	.4336	.3951	.3951	
.030	.4223	.3624	.3856	.3861	.3407	.3407	
.035	.3631	.2884	.2394	.2280	.1739	.1739	
.040	.2631	.2264	.1189	.0913	.0286	.0286	
.045	.1239	.0288	-.1875	-.1918	-.1838	-.1838	
.050	-.1359	-.1563	-.1504	-.3159	-.2279	-.2563	-.2603
.055	-.2422	-.2773	-.1854	-.1593	-.1420	-.1556	-.1544
.060	-.1728	-.1939	-.1854	-.1593	-.1420	-.1556	-.1544
.065	-.1430	-.1430	-.1158	-.0914	-.0886	-.0788	-.1144

## SECTION 2 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.3590	.2405	.2476	.3807	.3095	
.025	.3606	.2293	.2571	.2338	.1589	.1589	
.030	.2931	.2133	.2165	.2091	.1920	.1920	
.035	.1513	.0975	.1012	.0941	.0737	.0737	
.040	.0217	.0264	.0040	-.0046	-.0429	-.0429	
.045	-.1975	-.2311	-.2548	-.2600	-.2251	-.2251	
.050	-.2414	-.3112	-.3622	-.2655	-.2839	-.2617	
.055	-.2414	-.3112	-.2056	-.1450	-.1449	-.1211	
.060	-.1759	-.1916	-.1040	-.0744	-.0554	-.0340	

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INSULATED PRESSURE DATA - 0A148 (AVES 11-073-1)

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WFS 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV27)

WFS 11 = -3.049 DATA (3) = .187 MACH = .59658 O = 594.56 P = 2386.3 RN/L = 4.8484

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

ZBY .1580 .3170 .4590 .6020 .6970 .8390 .9250

\*CV

.000	.4905	.4472	.4863	.4711	.4357	
.005	-.0326	-.3239	-.3549	-.2430	-.4580	
.050	.0844	-.0132	-.0885	-.0885	-.1060	
.100	.0113	-.0755	-.0923	-.1041	-.0856	
.150	-.0321	-.1134	-.1326	-.1236	-.1487	
.200	-.0321	-.1134	-.3412	-.3459	-.2869	
.250	-.0279	-.1757	-.1531	-.3454	-.2869	
.300	-.0279	-.1757	-.2541	-.1767	-.2952	
.350	-.0279	-.1757	-.1165	-.1767	-.1212	
.400	-.0279	-.1757	-.0247	-.0567	-.0027	

WFS 11 = -3.957 BETA (4) = 4.268 MACH = .59658

O

P = 594.56

P = 2386.3

RN/L = 4.8484

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

ZBY .1580 .3170 .4590 .6020 .6970 .8390 .9250

\*CV

.000	.3289	.1847	.1991	.1117	.1248	
.005	-.0104	-.1911	-.6072	-.5657	-.9981	
.050	.0844	-.0132	-.5435	-.5413	-.9631	
.100	.0113	-.0755	-.4232	-.4626	-.4056	
.150	-.0321	-.1134	-.3570	-.3284	-.2786	
.200	-.0321	-.1134	-.4970	-.4078	-.3275	
.250	-.0279	-.1757	-.3322	-.3836	-.2926	
.300	-.0279	-.1757	-.2545	-.1841	-.1491	
.350	-.0279	-.1757	-.1165	-.1982	-.1491	
.400	-.0279	-.1757	-.0646	-.0586	-.0313	

WFS 11 = -3.957 BETA (5) = 0.340 MACH = .59658

O

P = 594.56

P = 2386.3

RN/L = 4.8484

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

ZBY .1580 .3170 .4590 .6020 .6970 .8390 .9250

\*CV

.000	.3637	.4559	.3186	-.4632	-.3529	
.005	-.0104	-.1911	-.9234	-.8608	-.12155	
.050	.0844	-.0132	-.7724	-.8156	-.10961	
.100	.0113	-.0755	-.7195	-.7517	-.8034	
.150	-.0321	-.1134	-.6406	-.6204	-.6289	
.200	-.0321	-.1134	-.5080	-.4613	-.3914	
.250	-.0279	-.1757	-.1513	-.2895	-.3851	
.300	-.0279	-.1757	-.2315	-.1994	-.3386	
.350	-.0279	-.1757	-.1379	-.2818	-.2581	
.400	-.0279	-.1757	-.0646	-.1677	-.1824	

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TABULATED PRESSURE DATA - 0A148 (AVES 11-073-1)

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ALPHA (2) = .055 BETA (1) = -7.896 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456  
 SECTION (1) INVERTICAL  
 Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

(XEBV27)

X/CV						
.000	-.0240	-.3093	-.2334	-.1317	-.1907	
.025	.4312	.3776	.4065	.3953	.3508	
.050	.3757	.3319	.3480	.3533	.3069	
.100	.2226	.1937	.2150	.2053	.1426	
.200	.0321	.0548	.0954	.0806	.0036	
.300	-.1525	-.1648	-.1946	-.1868	-.1733	
.400	-.2405	-.2835	-.3024	-.2210	-.2558	
.500	-.1767	-.1835	-.1571	-.1431	-.1551	
.600	-.1150	-.1532	-.0960	-.0927	-.0747	
.700						
.800						
.900						

ALPHA (2) = .055 BETA (2) = -3.860 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456  
 SECTION (1) INVERTICAL  
 Z BV .1590 .3170 .4530 .6020 .6970 .8390 .9250

X/CV						
.000	.3077	.1739	.1694	.3049	.2158	
.025	.2595	.1934	.2241	.2119	.1772	
.050	.2335	.1751	.1839	.1860	.1648	
.100	.1121	.0660	.0781	.0764	.0522	
.200	-.0124	-.0345	-.0151	-.0158	-.0632	
.300	-.2109	-.2385	-.2577	-.2581	-.2223	
.400	-.2497	-.3152	-.3542	-.2586	-.2847	
.500	-.1813	-.1959	-.2017	-.1500	-.1462	
.600	-.1444	-.1051	-.0336	-.0655	-.0294	
.700						
.800						
.900						

ALPHA (2) = .070 BETA (3) = .184 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8456  
 SECTION (1) INVERTICAL  
 Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV						
.000	.4502	.3948	.4293	.4094	.3675	
.025	.4052	.3396	.3469	-.2197	-.4532	
.050	.3649	.0650	-.1042	-.1075	-.1133	
.100	.0272	-.0985	-.1075	-.1144	-.0926	
.200	-.1243	.1544	-.1408	-.1299	-.1550	
.300	-.2752	.3157	.3422	-.3386	-.2833	
.400	-.2425	.3425	-.1374	-.3260	-.3495	
.500	-.1369	-.2042	-.2437	-.1774	-.1669	
.600	-.1193	-.1134	-.0940	-.0642	-.0255	
.700						
.800						
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TASULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 6726**

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BETA (4) =

0603 - 433

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(XEBV27)

Thomas H. Smith

DEPENDENT VARIABLE CP

[illegible][illegible]
$$C_{D, \text{air}} = C_{D, \text{air}}(S) = 8.305 \quad \text{MACH} = .59638$$

# THE HISTORY OF THE

DEPENDENT VARIABLE CP

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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Year	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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DEPENDENT VARIABLE

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100



TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(U2A93X)

AXES 11-073(OA148) -140A/B/C/R ORB VERTICAL

7/NEJ • 4-24-32

2386.0



593.49



H. 80965

REF A (2) = -3.853

31 = 1563

10

DEPENDENT VARIABLE CP

# Vertical

2.30	.1592	.3170	.4593	.6020	.6970	.8390	.9250
------	-------	-------	-------	-------	-------	-------	-------

$\gamma$ /eV	$\sigma_{\text{tot}}$	$\sigma_{\text{el}}$	$\sigma_{\text{in}}$	$\sigma_{\text{R}}^{\text{el}}$	$\sigma_{\text{R}}^{\text{in}}$	$\sigma_{\text{R}}^{\text{tot}}$	$\sigma_{\text{R}}^{\text{el}}/\sigma_{\text{R}}^{\text{tot}}$	$\sigma_{\text{R}}^{\text{in}}/\sigma_{\text{R}}^{\text{tot}}$
0.0	2542	1163	1038	2251	1490			
0.25	2237	1652	2068	1944	1673			
0.50	1936	1485	1621	1613	1378			
1.00	977	650	958	950	639			
2.00	523	349	376	321	279			
3.00	343	215	269	210	192			
4.00	277	163	216	163	152			
5.00	247	133	175	145	130			
6.00	221	122	159	134	122			

PAV/L 4.8432

2386.0

Q.

593.49



H. = 80965'

FFTA 131 = 188

12. = 1.53

11

DEPENDENT VARIABLE CP

SECRET - INTERNAL

Station	Time	Lat	Long	Alt	Temp	Wind	Clouds	Remarks
1	0526	0628	0659	0209	0654	32.12	0631	43.2
2	0526	0628	0659	0209	0654	32.12	0631	43.2

100	4182	3438	3717	3551	2976
225	0723	2249	3257	2249	4020
300	0155	0935	1058	1098	1217
450	0511	1184	1191	1148	1013
600	1469	1575	1452	1298	1597
750	2947	3111	3335	3174	2716
900	2754	3356	3912	3175	2652
1050	1354	2534	2165	1540	1143
1200		1512	0936	0357	0089
			1231	3081	
			2340	1822	
			1214	0695	

FD-302 (Rev. 4-15-64)

**2386.0**

Q.

593.49


$$H_1 = 59508$$

GETA (4) = 4 237

6-0-2

49

DEPENDENT VARIABLE CP

ADDITIONAL INFORMATION

1990	3173	4599	.6020	.6970	.8390	.9250
------	------	------	-------	-------	-------	-------

2443	0759	0755	-0206	-0756
3531	5293	5287	5380	10500
3314	5549	5380	5071	9556
2372	3917	4812	4614	3699
2551	2578	3662	3651	2899
3090	3363	3682	3694	2925
4122	3035	4079	3322	2608
1193	2321	2302	1852	1311
	1332	1012	2547	
	2322	1071		
	1148			
	1335			

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV27)

ALPHA ( 3 ) = 3.280 BETA ( 5 ) = 8.292 MACH = .59608 Q = 593.49 P = 2386.0 RN/L = 4.8432

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1494	-.5823	-.4930	-.6447	-.5146
.025	-.6468	-1.1146	-.8104	-.8373	-.8709
.050	-.6705	-.9501	-.7913	-.8327	-.7930
.075	-.8264	-1.0330	-.7609	-.8291	-.7367
.100	-.4005	-.4455	-.7490	-.7990	-.5866
.125	-.3738	-.3390	-.5756	-.4952	-.4057
.150	-.2525	-.2560	-.4423	-.3264	-.3865
.175	-.2274	-.2639	-.2395	-.2435	-.3397
.200	-.1936	-.1936	-.1526	-.1383	-.2739
				-.1298	-.2067

ALPHA ( 4 ) = 7.935 BETA ( 1 ) = -7.885 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429

## SECTION 2 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1273	-.4434	-.4579	-.3121	-.3519
.025	.3513	.3065	.3307	.3152	.2624
.050	.2394	.2643	.2828	.2823	.2254
.075	.1630	.1450	.1697	.1606	.0984
.100	.0487	.0358	.0671	.0558	-.0227
.125	-.1603	-.1586	-.1635	-.1732	-.1681
.150	-.2603	-.2815	-.2773	-.2318	-.2349
.175	-.1744	-.1804	-.1522	-.1365	-.1564
.200	-.1708	-.1364	-.0971	-.0909	-.0929

ALPHA ( 4 ) = 7.944 BETA ( 2 ) = -3.857 MACH = .59590 Q = 597.13 P = 2386.0 RN/L = 4.8429

## SECTION 3 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2449	.0719	.0452	.1526	.0829
.025	.1746	.1427	.1641	.1730	.1456
.050	.1537	.1217	.1454	.1456	.1221
.075	.0427	.0294	.0473	.0418	.0139
.100	-.0545	-.0559	-.0240	-.0401	-.0826
.125	-.2140	-.2468	-.2511	-.2427	-.2107
.150	-.2362	-.3242	-.3292	-.2557	-.2367
.175	-.1668	-.2015	-.2028	-.1550	-.1254
.200	-.1721	-.1721	-.0987	-.0755	-.0357

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.045 BETA ( 3 ) = .182 MACH = .59590 Q = 593.13 P = 2386.0 RN/L = 4.8429  
(XEBV27)

SECTION ( 1 ) VERTICAL

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3909	.3058		.3244		.3002	.2387
.025	-.0957	-.3578		-.3319		-.2537	-.4018
.050	-.0105	-.1152		-.1144		-.1254	-.1257
.100	-.0828	-.1378		-.1251		-.1249	-.1033
.150	-.1664	-.1714		-.1510		-.1396	-.1602
.200	-.2860	-.3082		-.3236		-.3113	-.2546
.250	-.2231	-.3375	-.1188	-.3707	-.2987	-.3067	-.2487
.300	-.1936	-.2055	-.2325	-.2102	-.1822	-.1564	-.1126
.350		-.1660	-.1299	-.0968	-.0716	-.0329	-.0098

ALPHA ( 4 ) = 8.043 BETA ( 4 ) = 4.239 MACH = .59590

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2265	.0351		.0099		-.0984	-.1641
.025	-.3858	-.6206		-.5979		-.5341	-.9708
.050	-.3534	-.6058		-.5353		-.5049	-.8736
.100	-.2820	-.3875		-.5175		-.4995	-.4513
.150	-.2800	-.2859		-.3544		-.3789	-.2513
.200	-.3254	-.3358		-.3108		-.3426	-.2674
.250	-.2034	-.2854	-.1206	-.3946	-.3056	-.3022	-.2353
.300	-.2001	-.2053	-.2418	-.2263	-.1957	-.1750	-.1351
.350		-.1970	-.1309	-.1010	-.0884	-.0488	-.0274

ALPHA ( 4 ) = 8.041 BETA ( 5 ) = 8.297 MACH = .59590

SECTION ( 1 ) VERTICAL

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1879	-.6338		-.5355		-.6660	-.5716
.025	-.6718	-.10616		-.7767		-.8032	-.7284
.050	-.6986	-.9521		-.7642		-.7857	-.6699
.100	-.8570	-.10178		-.7561		-.8180	-.6782
.150	-.3956	-.3370		-.7996		-.8075	-.5707
.200	-.3133	-.3465		-.5502		-.4345	-.4348
.250	-.2015	-.2764	-.1378	-.4026	-.3218	-.3254	-.3650
.300	-.2051	-.2354	-.2343	-.2558	-.2463	-.1951	-.2959
.350		-.2662	-.1764	-.1364	-.1579	-.0859	-.2111

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV27)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 5 ) = 11.909    BETA ( 1 ) = -7.850    MACH = .59646    Q = 594.33    P = 2386.5    RN/L = 4.8458

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	-.11330	-.5449	-.5431	-.4032	-.4167
.025	.2767	.2865	.2956	.2801	.2239
.050	.2296	.2560	.2630	.2580	.1986
.075	.0921	.1408	.1564	.1545	.0771
.100	.0034	.0438	.0635	.0516	-.0302
.125	-.1575	-.1449	-.1817	-.1630	-.1646
.150	-.2045	-.2665	-.2730	-.2012	-.2148
.175	-.1822	-.1711	-.1762	-.1316	-.2257
.200	-.1756	-.1454	-.1005	-.0884	-.1475
				-.0839	-.1001

ALPHA ( 5 ) = 11.929    BETA ( 2 ) = -3.836    MACH = .59646    Q = 594.33    P = 2386.5    RN/L = 4.8458

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.2623	.2391	-.0047	.0954	.0112
.025	.1558	.1226	.1722	.1615	.1281
.050	.1484	.1087	.1261	.1332	.1031
.075	.0209	.0159	.0331	.0381	.0047
.100	-.0937	-.0653	-.0323	-.0359	-.0862
.125	-.2627	-.2341	-.2414	-.2216	-.1968
.150	-.2624	-.3142	-.3184	-.2449	-.2386
.175	-.1634	-.1921	-.1762	-.1488	-.2334
.200		-.1680	-.1377	-.1310	-.1202
				-.0720	-.0312

ALPHA ( 5 ) = 11.930    BETA ( 3 ) = .181    MACH = .59646    Q = 594.33    P = 2386.5    RN/L = 4.8458

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.2791	.2749	-.2826	.2510	.1911
.025	-.1002	-.0556	-.3223	-.2595	-.3848
.050	-.0140	-.0129	-.1236	-.1129	-.1421
.075	-.0906	-.0490	-.1314	-.1255	-.1135
.100	-.1214	-.1843	-.1575	-.1348	-.1556
.125	-.2670	-.2030	-.3168	-.2916	-.2434
.150	-.2606	-.2037	-.3620	-.2888	-.2344
.175	-.1372	-.2155	-.2242	-.1688	-.1420
.200		-.1229	-.0306	-.0689	-.1025
				-.0350	-.0095

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV27)

ALPHA ( 5 ) = 11.930 BETA ( 4 ) = 4.251 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2465	.0000		-.0505		-.1772	-.2436
.025	-.3651	-.6384		-.5975		-.5383	-.9012
.050	-.3482	-.6376		-.5499		-.5085	-.7850
.150	-.2915	-.3909		-.5497		-.5473	-.5199
.300	-.2864	-.2914		-.3271		-.3789	-.2182
.520	-.3296	-.3394		-.3702		-.3167	-.2504
.685	-.1977	-.2767	-.1142	-.3768	-.3207	-.2823	-.2291
.775	-.1939	-.2110	-.2315	-.2189	-.2030	-.1582	-.1373
.900		-.2205	-.1351	-.1050	-.0908	-.0467	-.0455

ALPHA ( 5 ) = 11.920 BETA ( 5 ) = 8.317 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8458

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.2143	-.6801		-.6389		-.6434	-.6008
.025	-.7574	-.10852		-.8236		-.7185	-.6119
.050	-.7882	-.9770		-.8231		-.7185	-.5716
.150	-.5233	-.10712		-.8348		-.7100	-.5543
.300	-.4698	-.4181		-.8590		-.6839	-.4874
.520	-.4399	-.3234		-.5158		-.4779	-.3767
.685	-.3148	-.2574	-.1302	-.3540	-.3760	-.3808	-.3297
.775	-.2398	-.2417	-.2179	-.1922	-.2879	-.2756	-.2935
.900		-.2462	-.1622	-.1100	-.1927	-.1697	-.2328

ORIGINAL PAGE IS  
OF POOR QUALITY

(XE8V28) 13 AUG 75

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

REF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 1474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 925.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 35.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = 1.400

ALPHA ( 1 ) = -3.978 BETA ( 1 ) = -3.855 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7301	.6702	.6464	.6523	.6391		
.000	.5033	.5148	.4628	.4703	.4611		
.025	.6231	.5158	.4533	.4614	.4611		
.050	.5821	.4180	.3875	.3960	.3801		
.075	.3914	.3297	.3278	.3590	.3240		
.100	.2195	.2162	.2702	.2856	.1439		
.125	.1389	.1198	.1609	.1038	.1354		
.150	.1357	.1177	.1146	.1257	.1517		
.175	.1215	.1127	.1055	.1078	.1825		
.200					.2740		

ALPHA ( 1 ) = -3.971 BETA ( 2 ) = .185 MACH = 1.3927 Q = 599.58 P = 441.59 RN/L = 2.9214

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.8313	.7433	.7009	.6640	.6030		
.000	.2709	.1444	.0340	.0241	.0487		
.025	.5555	.3473	.0709	.0418	.0073		
.050	.4284	.2175	.2229	.2262	.2376		
.075	.2594	.2113	.2005	.2149	.2301		
.100	.1209	.1117	.1362	.2343	.1483		
.125	.1384	.1243	.1194	.1117	.1342		
.150	.1355	.1212	.1643	.1806	.1718		
.175		.1214	.1575	.1631	.2292		
.200					.2559		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = -3.978 BETA ( 3 ) = 4.270 MACH = 1.3927 Q = 599.58 P = 441.59 RV/L = 2.9214  
 (XEBV28)

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7634 .6692 .6063 .5540 .4301  
 .025 .0919 -.0721 -.3118 -.4821 -.5578  
 .050 .1120 -.0814 -.3104 -.4662 -.4997  
 .100 .2110 .0347 -.0517 -.3374 -.3973  
 .150 .3006 .0873 -.0382 .0398 -.1296  
 .200 .4070 .0210 -.0152 .1226 .0891  
 .250 .5051 -.2563 -.1472 -.1941 -.2142  
 .300 .6034 -.2884 -.2456 -.2064 -.1695  
 .350 .7018 -.3349 -.2619 -.2163 -.1855  
 .400 .8000 .3349 -.2619 -.2163 -.1855  
 .450 .9000 .3349 -.2619 -.2163 -.1855  
 .500 .9000 .3349 -.2619 -.2163 -.1855  
 .550 .9000 .3349 -.2619 -.2163 -.1855  
 .600 .9000 .3349 -.2619 -.2163 -.1855  
 .650 .9000 .3349 -.2619 -.2163 -.1855  
 .700 .9000 .3349 -.2619 -.2163 -.1855  
 .750 .9000 .3349 -.2619 -.2163 -.1855  
 .800 .9000 .3349 -.2619 -.2163 -.1855  
 .850 .9000 .3349 -.2619 -.2163 -.1855  
 .900 .9000 .3349 -.2619 -.2163 -.1855

ALPHA ( 2 ) = -.069

BETA ( 1 ) = -3.876

MACH = 1.3934

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7131 .5906 .5755 .5554 .5464  
 .025 .5225 .4429 .3934 .3956 .3940  
 .050 .5432 .4426 .3857 .3887 .3928  
 .100 .4472 .3433 .3204 .3274 .3113  
 .150 .3119 .2560 .2616 .2914 .2685  
 .200 .1540 .1557 .2088 .2409 .1100  
 .250 .3498 -.2282 -.1553 -.1903 -.1262  
 .300 .2613 -.2148 -.1533 -.1083 -.1562  
 .350 .2516 -.2516 -.1677 -.1132 -.1092  
 .400 .2516 -.2516 -.1677 -.1132 -.1092  
 .450 .2516 -.2516 -.1677 -.1132 -.1092  
 .500 .2516 -.2516 -.1677 -.1132 -.1092  
 .550 .2516 -.2516 -.1677 -.1132 -.1092  
 .600 .2516 -.2516 -.1677 -.1132 -.1092  
 .650 .2516 -.2516 -.1677 -.1132 -.1092  
 .700 .2516 -.2516 -.1677 -.1132 -.1092  
 .750 .2516 -.2516 -.1677 -.1132 -.1092  
 .800 .2516 -.2516 -.1677 -.1132 -.1092  
 .850 .2516 -.2516 -.1677 -.1132 -.1092  
 .900 .2516 -.2516 -.1677 -.1132 -.1092

ALPHA ( 2 ) = -.045

BETA ( 2 ) = .182

MACH = 1.3934

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7575 .6592 .6239 .5700 .4814  
 .025 .2077 .0920 -.0171 -.0176 -.0869  
 .050 .3944 .2931 .0155 -.0015 -.0432  
 .100 .3733 .2110 .1649 .1666 .1597  
 .150 .2500 .1493 .1432 .1529 .1581  
 .200 .0710 .0568 .0791 .1678 .1054  
 .250 .2927 -.2656 -.1495 -.1850 -.1537  
 .300 .3977 -.2715 -.2188 -.2151 -.2008  
 .350 .3151 -.2396 -.1978 -.2030 -.2542  
 .400 .3151 -.2396 -.1978 -.2030 -.2542  
 .450 .3151 -.2396 -.1978 -.2030 -.2542  
 .500 .3151 -.2396 -.1978 -.2030 -.2542  
 .550 .3151 -.2396 -.1978 -.2030 -.2542  
 .600 .3151 -.2396 -.1978 -.2030 -.2542  
 .650 .3151 -.2396 -.1978 -.2030 -.2542  
 .700 .3151 -.2396 -.1978 -.2030 -.2542  
 .750 .3151 -.2396 -.1978 -.2030 -.2542  
 .800 .3151 -.2396 -.1978 -.2030 -.2542  
 .850 .3151 -.2396 -.1978 -.2030 -.2542  
 .900 .3151 -.2396 -.1978 -.2030 -.2542

RV/L = 2.9212

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XE8V28)

ALPHA ( 2 ) = -.049 BETA ( 3 ) = 4.247 MACH = 1.3934 Q = 600.11 P = 441.59 RN/L = 2.9212

## SECTION ( 1 ) VERTICAL

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV  
 .000 .6919 .5976 .5335 .4798 .3551  
 .025 -.0249 .1359 -.3306 -.4838 -.5608  
 .050 .0397 .1347 -.3422 -.4651 -.5148  
 .100 .1444 .0252 -.0963 -.3434 -.3901  
 .150 .1500 .0492 -.0762 -.1183  
 .200 .0021 -.0390 -.0597 .0566 .0401  
 .250 .4237 .3260 -.2372 -.2045 -.3519  
 .300 .3937 .3274 -.2764 -.2521 -.3618  
 .350 .3572 .2975 -.2562 -.2768 -.3372

ALPHA ( 3 ) = 3.888 BETA ( 1 ) = -3.879 MACH = 1.3920 Q = 599.57 P = 442.06 RN/L = 2.9184

## SECTION ( 1 ) VERTICAL

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV  
 .000 .6223 .5268 .4982 .4649 .4527  
 .025 .3730 .3619 .3061 .3157 .3072  
 .050 .1133 .3661 .3063 .3127 .3154  
 .100 .3423 .2718 .2444 .2552 .2454  
 .150 .2337 .1838 .1903 .2229 .2013  
 .200 .0919 .0912 .1586 .1872 .0607  
 .250 .4102 .2251 .2212 .1583 .1758 .3983  
 .300 .3733 .2499 .1938 .1867 .2108 .3459  
 .350 .2987 .2084 .1545 .1503 .2172 .3426

ALPHA ( 2 ) = .992 BETA ( 2 ) = .179 MACH = 1.3920 Q = 599.57 P = 442.06 RN/L = 2.9184

## SECTION ( 1 ) VERTICAL

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV  
 .000 .6715 .5993 .5370 .4743 .3917  
 .025 .3730 .3619 .3061 .3157 .3072  
 .050 .1133 .3661 .3063 .3127 .3154  
 .100 .3423 .2718 .2444 .2552 .2454  
 .150 .2337 .1838 .1903 .2229 .2013  
 .200 .0919 .0912 .1586 .1872 .0607  
 .250 .4102 .2251 .2212 .1583 .1758 .3983  
 .300 .3733 .2499 .1938 .1867 .2108 .3459  
 .350 .2987 .2084 .1545 .1503 .2172 .3426



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V28)

ALPHA ( 3 ) = 3.896 BETA ( 3 ) = 4.241 MACH = 1.3920 Q = 599.57 P = 442.06 RN/L = 2.9184

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5900	.5399	.4512	.3763	.2833		
.025	-.1163	-.1599	-.3791	-.4846	-.5576		
.050	-.0165	-.1443	-.3867	-.4723	-.5163		
.100	.1490	-.0355	-.1386	-.3633	-.3914		
.150	.0979	-.0137	-.0948	-.0603	-.0859		
.200	-.0745	-.0960	-.1019	-.0085	-.0245		
.250	-.3999	-.3598	-.1582	-.2703	-.2393		
.300	-.3774	-.3575	-.3160	-.2843	-.3758		
.350			-.2821	-.2634	-.3680		
.400			-.3394	-.2914	-.3680		
.450			-.3933	-.2935	-.3092		

ALPHA ( 4 ) = 7.940 BETA ( 1 ) = -3.870 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.9184

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6005	.4873	.4309	.3803	.3686		
.025	.2691	.2950	.2344	.2467	.2357		
.050	.3353	.3068	.2366	.2418	.2472		
.100	.2945	.2129	.1827	.1919	.1823		
.150	.1519	.1271	.1327	.1609	.1406		
.200	.0393	.0384	.0309	.1264	.0159		
.250	-.4183	-.2693	-.1712	-.1778	-.1911		
.300	-.775	-.2755	-.2155	-.2135	-.2398		
.350			-.4008	-.1840	-.3645		
.400			-.3204	-.1965	-.2352		

ALPHA ( 4 ) = 7.946 BETA ( 2 ) = .176 MACH = 1.3916 Q = 599.57 P = 442.30 RN/L = 2.9184

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6948	.5226	.4452	.3783	.3207		
.025	.1458	.0760	-.0774	-.0913	-.1496		
.050	.3456	.2085	-.0715	-.0970	-.1019		
.100	.2941	.1124	.0579	.0501	.0431		
.150	.1179	.0334	.0283	.0354	.0265		
.200	-.0405	-.0546	-.0313	.0595	-.0096		
.250	-.4332	-.3193	-.1594	-.2408	-.2440		
.300	-.775	-.3235	-.2793	-.2748	-.4155		
.350			-.3025	-.2630	-.3744		
.400			-.3701	-.3003	-.3626		

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV28)

ALPHA ( 4 ) = 7.949 BETA ( 3 ) = 4.238 MACH = 1.3916 O = 599.57 P = 442.30 RN/L = 2.9184

SECTION ( 1 ) - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

1.000	.5642	.5052	.3828	.2325	.2235	
1.025	.1026	-.1553	-.3764	-.4640	-.5532	
1.050	.1454	-.1347	-.3897	-.4708	-.5070	
1.100	.2353	-.0086	-.1671	-.3071	-.3806	
1.200	.0428	-.1597	-.1037	-.1156	-.0875	
1.300	-.1193	-.1437	-.1338	.0640	-.0734	
1.400	-.4045	-.2563	-.3329	-.2821	-.2852	
1.500	-.5753	-.4006	-.3451	-.3272	-.2971	
1.600	-.7321	-.5321	-.3367	-.3353	-.3818	

ALPHA ( 5 ) = 11.853 BETA ( 1 ) = -3.856 MACH = 1.3913 O = 599.66 P = 442.53 RN/L = 2.9180

SECTION ( 1 ) - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

1.000	.5479	.4595	.3618	.3027	.2897	
1.025	.1350	-.2593	-.1852	.1908	.1782	
1.050	.1722	-.2204	.1854	.1830	.1826	
1.100	.2551	-.1640	.1285	.1342	.1277	
1.200	.0651	-.0610	.0908	.1044	.0918	
1.300	-.1502	-.0148	.0506	.0792	-.0174	
1.400	-.4277	-.2466	-.2469	-.1926	-.2122	
1.500	-.6351	-.4239	-.2330	-.2259	-.4191	
1.600	-.8353	-.5353	-.2533	-.2063	-.3738	
1.700			-.2141	-.2432	-.3705	

ALPHA ( 6 ) = 11.847 BETA ( 2 ) = .179 MACH = 1.3913 O = 599.66 P = 442.53 RN/L = 2.9180

SECTION ( 1 ) - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

1.000	.6717	.4762	.3747	.3039	.2598	
1.025	.1354	.0127	-.1046	-.1231	-.1767	
1.050	.1725	.0070	-.1039	-.1287	-.1276	
1.100	.2522	.0910	.0097	.0038	.0031	
1.200	.0630	.0009	.0191	-.0137	-.0196	
1.300	-.1239	-.0870	-.0769	.0054	-.0568	
1.400	-.4045	-.2563	-.3070	-.2633	-.4338	
1.500	-.6351	-.4239	-.2813	-.3002	-.3989	
1.600	-.8353	-.5353	-.2902	-.3192	-.3928	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV28

BETA ( 5 ) = 11.870    BETA ( 3 ) = 4.256    MACH = 1.3913    Q = 599.66    P = 442.53    = 2.9180

SECTION 1 VERTICAL

Z BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250  
 DEPENDENT VARIABLE CP

X/CV

.000    .5279    .4745    .3138    .2183    .1766  
 .025    .1083    .1543    .3620    .4568    .5276  
 .050    .1759    .1439    .3828    .4610    .5047  
 .075    .2201    .1030    .1917    .3037    .3687  
 .100    .0450    .10782    .1376    .1602    .1445  
 .125    .1141    .11633    .1680    .1116    .1121  
 .150    .1427    .1355    .3405    .3096    .3143    .4303  
 .175    .3897    .14093    .3568    .3363    .3268    .3963  
 .200    .1416    .3826    .3590    .3505    .3531    .4025

ALPHA ( 6 ) = 15.854    BETA ( 1 ) = -3.831    MACH = 1.3903

RN/L = 2.9206

P = 443.00

Q = 599.44

P

SECTION 1 VERTICAL

Z BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250  
 DEPENDENT VARIABLE CP

X/CV

.000    .7575    .5131    .3393    .2412    .2249  
 .025    .2027    .1194    .1384    .1396    .1241  
 .050    .0503    .2575    .1431    .1325    .1336  
 .075    .1150    .1095    .0843    .0824    .0795  
 .100    .0247    .10205    .0323    .0519    .0434  
 .125    .1010    .11071    .0049    .0467    .0450  
 .150    .1423    .13192    .2751    .2191    .4263  
 .175    .3774    .3280    .2222    .2487    .3857  
 .200    .1356    .2862    .2418    .2274    .2544    .3814

ALPHA ( 6 ) = 15.859    BETA ( 2 ) = .178    MACH = 1.3903

RN/L = 2.9206

P = 443.00

Q = 599.44

P

SECTION 1 VERTICAL

Z BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250  
 DEPENDENT VARIABLE CP

X/CV

.000    .8399    .5044    .3330    .2425    .2010  
 .025    .1053    .10209    .1450    .1554    .2028  
 .050    .2012    .1519    .1533    .1662    .1568  
 .075    .2742    .0586    .0240    .0354    .0413  
 .100    .0723    .10351    .0521    .0521    .0588  
 .125    .1171    .1202    .1105    .0316    .0985  
 .150    .1456    .1457    .1124    .2827    .2900    .4529  
 .175    .1400    .1313    .3290    .3208    .3313    .4186  
 .200    .1400    .1400    .3360    .3182    .3335    .4177

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( G ) = 15.859 BETA ( 3 ) = 4.283 MACH = 1.3903 Q = 599.44 P = 443.00 SN/L = 2.9206

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV28)

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/CV	.7693	.5287	.2866	.1601	.1337		
.000	.1803	-.1599	-.3645	-.4608	-.5118		
.025	.2554	-.1201	-.3884	-.4667	-.5092		
.050	.2809	-.0886	-.2073	-.2752	-.3555		
.075	.3025	-.0771	-.1518	-.1813	-.1946		
.100	.3210	-.0702	-.1889	-.1473	-.1573		
.125	.3362	-.0629	-.3589	-.3264	-.3373		
.150	.3484	-.0484	-.3732	-.3458	-.4123		
.175	.3559	-.0439	-.3905	-.3634	-.4215		
.200							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV29) ( 13 AUG 75 )

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

REF = 250.000 SQ.FT. XMRP = 1075.6900 IN. XO  
REF = 474.3700 IN. YMRP = .0000 IN. YO  
REF = 936.0500 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -3.985 BETA ( 1 ) = -3.845 MACH = 1.2451 Q = 599.50 P = 552.51 RN/L = 3.0225

SECTION ( 1 ) VERTICAL

Z:87 .1580 .3170 .4590 .6020 .6970 .8390 .9250

KICV

.000	.1622	.6246	.6088	.6265	.6201
.025	.5924	.4610	.4226	.4375	.4055
.050	.5365	.4617	.4148	.4252	.4076
.075	.4834	.4582	.3435	.3499	.3311
.100	.4339	.2734	.2778	.3123	.2567
.125	.3835	.1437	.1715	.2008	.0516
.150	.3333	.3071	.1660	.2267	.2411
.175	.2837	.1670	.2099	.2317	.4925
.200	.2343	.1278	.1733	.2667	.4186
.225	.1857	.0883	.1407	.2913	.3744

ALPHA ( 2 ) = -3.967 BETA ( 2 ) = .186 MACH = 1.2451 Q = 599.50 P = 552.51 RN/L = 3.0225

SECTION ( 2 ) VERTICAL

Z:87 .1580 .3170 .4590 .6020 .6970 .8390 .9250

KICV

.000	.3141	.6905	.6623	.6600	.6150
.025	.2779	.6952	.6371	.6079	.1425
.050	.2428	.6959	.6041	.0125	.0878
.075	.2095	.6152	.1692	.1671	.1880
.100	.1768	.1479	.1479	.1734	.1873
.125	.1453	.1143	.0759	.1590	.0533
.150	.1145	.0743	.1596	.2284	.4834
.175	.0837	.0337	.2862	.2787	.2956
.200	.0530	.0331	.2341	.2579	.3442
.225	.0223	.0331	.2341	.2579	.3442

PARAMETRIC DATA

RUDDER = -10.000 SPDERK = 35.000  
BODYLAP = 16.300 L-ELVN = 10.000  
R-ELVN = .000 MACH = 1.250

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

IXE8V291

ALPHA ( 1 ) = -1.974 BETA ( 3 ) = 4.269 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0225

SECTION 1 - VERTICAL

Z-87 .1590 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA ( 2 ) = -1.039 BETA ( 1 ) = -3.871 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION 2 - VERTICAL

Z-87 .1550 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA ( 3 ) = -1.027 BETA ( 2 ) = .182 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192

SECTION 3 - VERTICAL

Z-87 .1530 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA ( 4 ) = -1.027 BETA ( 3 ) = .182 MACH = 1.2459 Q = 599.80 P = 552.04 RN/L = 3.0192



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV29)

ALPHA ( 3 ) = 3.925 BETA ( 3 ) = 4.237 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0214

SECTION ( 1 ) VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/COV  
 .000 .6059 .4965 .4046 .3439 .2068  
 .025 .0643 .2385 .4531 .6168 .6745  
 .050 .0156 .2258 .4333 .6331 .6494  
 .100 .1127 .0997 .2240 .3437 .5495  
 .200 .0405 .0671 .1600 .1373 .1352  
 .300 .1456 .1655 .1725 .1085 .1317  
 .400 .4621 .4841 .3920 .3671 .3460 .5221  
 .500 .1755 .4815 .4237 .3983 .3763 .5082  
 .600 .4336 .4473 .3385 .4017 .4246 .4848

ALPHA ( 1 ) = 7.990 BETA ( 1 ) = 3.870 MACH = 1.2446

SECTION ( 1 ) VERTICAL

Z/B: .1520 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/COV  
 .000 .6447 .4518 .3712 .3327 .3194  
 .025 .3274 .2369 .1907 .2043 .2045  
 .050 .3816 .2581 .1857 .1944 .2015  
 .100 .2544 .1601 .1270 .1377 .1256  
 .200 .1141 .0629 .0741 .1074 .0319  
 .300 .0192 .0254 .0327 .0375 .0809  
 .400 .3212 .3898 .3448 .2954 .3401 .5563  
 .500 .4215 .3846 .2904 .3157 .3622 .4934  
 .600 .4281 .3418 .2980 .2802 .3512 .4861

ALPHA ( 2 ) = 7.994 BETA ( 2 ) = .176 MACH = 1.2446

SECTION ( 1 ) VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/COV  
 .000 .3875 .4651 .4114 .3467 .2650  
 .025 .1775 .0349 .1544 .1636 .2230  
 .050 .3253 .1513 .1324 .1679 .1734  
 .100 .2410 .0485 .0119 .0122 .0148  
 .200 .0514 .0342 .0355 .0226 .0129  
 .300 .1103 .1193 .0998 .0167 .0831  
 .400 .1535 .4325 .3817 .3498 .3526 .5525  
 .500 .4381 .4377 .3694 .3748 .3893 .5022  
 .600 .4763 .4077 .3649 .3675 .4154 .4778



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.996 BETA ( 3 ) = 4.240 MACH = 1.2446 Q = 599.59 P = 552.98 RN/L = 3.0205  
(XEBV29)

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
.000	.6378	.4615	.3307	.2615	.1387			
.025	.0830	-.2371	-.4653	-.5904	-.6929			
.050	.1316	-.2196	-.4877	-.5777	-.6618			
.150	.1675	-.0771	-.2631	-.3623	-.4563			
.300	-.0229	-.1205	-.1632	-.1835	-.1811			
.520	-.1917	-.2179	-.2036	-.1391	-.1540			
.695	-.4802	-.5046	-.1631	-.3835	-.3857	-.5470		
.775	-.4280	-.5024	-.4275	-.4277	-.4058	-.5151		
.900	-.4334	-.4739	-.4336	-.4308	-.4475	-.5106		

ALPHA ( 5 ) = 11.923 BETA ( 1 ) = -3.851 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
.000	.6682	.4304	.3164	.2530	.2381			
.025	.2705	.1888	.1259	.1439	.1396			
.050	.3494	.2112	.1283	.1368	.1412			
.150	.2137	.1072	.0718	.0831	.0739			
.300	.0413	.0046	.0221	.0559	.0351			
.520	-.0776	-.0705	.0105	-.0065	-.1201			
.685	-.5287	-.3972	-.1701	-.3087	-.3454	-.5676		
.775	-.4294	-.4010	-.3378	-.3338	-.3818	-.5090		
.900	-.4535	-.3622	-.3224	-.3061	-.3630	-.4934		

ALPHA ( 5 ) = 11.934 BETA ( 2 ) = .177 MACH = 1.2447 Q = 599.71 P = 552.98 RN/L = 3.0237

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
.000	.6701	.4464	.3444	.2665	.1956			
.025	.1530	-.0633	-.1897	-.2012	-.2555			
.050	.3033	.1206	.1698	-.2076	-.2045			
.150	.2237	.0127	.0548	-.0617	-.0654			
.300	.3212	-.0690	-.0841	-.0714	-.0702			
.520	-.1457	-.1604	-.1446	.0629	-.1270			
.655	-.1559	-.4576	-.1627	-.3707	-.3876	-.5685		
.775	-.4279	-.4502	-.4148	-.4010	-.4195	-.5203		
.900	-.4333	-.4346	-.3341	-.3922	-.4313	-.5071		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V23)

ALPHA ( 5 ) = 11.927 BETA ( 3 ) = 4.253 MACH = 1.2447 Q = 599.71 P = 552.98 RW/L = 3.0237

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6652	.4325	.2704	.1771	.0833
.025	.0720	-.2412	-.4640	-.5803	-.6986
.050	.1377	-.2287	-.4973	-.5753	-.6780
.150	.1648	-.0949	-.2824	-.3221	-.3915
.300	-.0349	-.1483	-.1929	-.2302	-.2543
.520	-.2145	-.2445	-.2399	-.1789	-.1952
.665	-.4990	-.5165	-.1639	-.4036	-.4212
.775	-.4326	-.5174	-.4711	-.4532	-.5670
.900		-.4409	-.4914	-.4558	-.5198
			-.4826	-.4666	-.5273

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV30) ( 13 AUG 75 )

## REFERENCE DATA

CREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = 35.000  
 BOFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = 1.100

ALPHA ( 1 ) = -3.994 BETA ( 1 ) = -3.852 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .6879 .5465 .5326 .5751 .5734  
 .025 .5286 .3636 .3417 .3485 .2960  
 .050 .5192 .3657 .3311 .3377 .3104  
 .150 .3839 .2792 .2574 .2582 .2351  
 .300 .2253 .1909 .1843 .2053 .1402  
 .520 .0545 .0380 .0675 .0771 .0930  
 .625 .5095 .4793 .4088 .3941 .3792  
 .775 .3885 .4284 .3474 .3762 .4397  
 .900 .3047 .2931 .3125 .4352 .5349

ALPHA ( 1 ) = -3.985 BETA ( 2 ) = .190 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .7432 .6175 .6076 .6135 .5370  
 .025 .2523 .0162 .1265 .2203 .3331  
 .050 .3719 .1983 .0501 .0031 .2418  
 .150 .2795 .1234 .0894 .0827 .0808  
 .300 .1203 .0682 .0740 .0707 .0846  
 .520 .0305 .0538 .0229 .0251 .0967  
 .625 .5231 .5138 .4501 .4520 .4214  
 .775 .4091 .4957 .4375 .4375 .4808  
 .900 .3516 .3901 .4489 .4324 .5115

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## TABULATED PRESSURE DATA - 0A148 (AVES 11-073-1)

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AVES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBV30)

ALPHA (1) = -3.992 BETA (3) = 4.268 MACH = 1.0997 Q = 600.21 P = 709.06 RN/L = 3.1908

## SECTION 11 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6736	.5372	.4985	.3745	.2635
.025	.0295	-.3373	-.5572	-.6669	-.6362
.050	.0458	-.2355	-.5388	-.6473	-.6317
.100	.1315	-.0589	-.2537	-.3973	-.5894
.150	.0216	-.0880	-.1574	-.2586	-.3995
.200	-.1246	-.1590	-.1591	-.1876	-.1966
.250	-.5831	-.5547	-.4779	-.4829	-.4333
.300	-.775	-.5578	-.5054	-.4923	-.6470
.350	-.4417	-.5578	-.5054	-.4732	-.6135
.400	-.4308	-.4308	-.4834	-.5072	-.5406

ALPHA (2) = -.020 BETA (1) = -3.866 MACH = 1.0986 Q = 599.48 P = 709.54 RN/L = 3.1886

## SECTION 12 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6426	.4895	.4559	.4727	.4762
.025	.4533	.2913	.2621	.2736	.2393
.050	.4581	.2539	.2545	.2665	.2457
.100	.3239	.2051	.1851	.1862	.1701
.150	.1651	.1191	.1145	.1463	.0888
.200	-.0076	-.0182	.0044	.0195	-.1337
.250	-.5391	-.5103	-.4391	-.3958	-.4520
.300	-.3957	-.4583	-.3977	-.4119	-.7109
.350	-.3329	-.3329	-.3325	-.3596	-.6150
.400				-.4627	-.5627

ALPHA (2) = -.014 BETA (2) = .187 MACH = 1.0986 Q = 599.48 P = 709.54 RN/L = 3.1886

## SECTION 13 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7052	.5599	.5279	.5314	.4562
.025	.1895	-.0596	-.1793	-.2259	-.3444
.050	.3246	.1507	-.0301	-.0776	-.2507
.100	.2359	.0754	.0276	.0380	.0355
.150	.0773	.0119	.0049	.0205	.0392
.200	-.0839	.0961	-.0800	-.0218	-.1332
.250	-.5431	-.5459	-.4708	-.4749	-.4411
.300	-.4192	-.5433	-.4742	-.4531	-.7113
.350		-.4885	-.4186	-.4597	-.6602
.400				-.5272	-.5750

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V30)

ALPHA ( 3 ) = -.017 BETA ( 3 ) = 4.244 MACH = 1.0986 Q = 599.48 P = 709.54 RN/L = 3.1886

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6292	.4767		.4072		.3051	.1741
.025	-.0609	-.3542		-.5805		-.7306	-.6717
.050	-.0363	-.3091		-.5772		-.6977	-.6639
.150	.0871	-.1190		-.2724		-.4241	-.6332
.300	-.0226	-.1318		-.2202		-.2795	-.4233
.520	-.1885	-.2141		-.2207		-.1899	-.2131
.685	-.5730	-.6001	-.1618	-.4992	-.5092	-.4790	-.6856
.775	-.4485	-.5975	-.5376	-.5392	-.5210	-.5083	-.6410
.920		-.4370	-.5679	-.5096	-.5430	-.5589	-.5710

ALPHA ( 3 ) = 3.958 BETA ( 1 ) = -3.869 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6068	.4323		.3751		.3739	.3787
.025	.3468	.2159		.1819		.1964	.1768
.050	.3739	.2304		.1758		.1893	.1778
.150	.2592	.1368		.1098		.1158	.1009
.300	.1058	.0455		.0472		.0815	.0319
.520	-.0632	-.0802		-.0528		-.0370	-.1745
.685	-.6027	-.5359	-.1502	-.4759	-.4216	-.5058	-.7245
.775	-.4057	-.4982	-.4391	-.4254	-.4483	-.4975	-.6351
.920		-.3606	-.4467	-.3786	-.3960	-.4852	-.5893

ALPHA ( 3 ) = 3.959 BETA ( 2 ) = .177 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6769	.4966		.4441		.4292	.3602
.025	.1446	-.1030		-.2277		-.2405	-.3549
.050	.2902	.1055		-.1169		-.1857	-.2784
.150	.2011	.0107		-.0352		-.0220	-.0171
.300	.0197	-.0558		-.0579		-.0319	-.0178
.520	-.1360	-.1480		-.1473		-.0772	-.1773
.685	-.5754	-.5730	-.1480	-.5070	-.4948	-.4760	-.7306
.775	-.376	-.5636	-.5053	-.5099	-.4889	-.5312	-.6709
.920		-.4020	-.5215	-.4599	-.4903	-.5424	-.6126

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ALPHA ( 3 ) = 3.960 BETA ( 3 ) = 4.234 MACH = 1.1006 Q = 600.44 P = 708.14 RN/L = 3.1894  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV30)

DEPENDENT VARIABLE CP

SECTION 1 VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.5879	.4292	.3296	.2370	.1894	.1489	.1171
.000	.1036	.3723	.6024	.7665	.8713	.9250	.9500
.025	.1040	.3409	.6180	.7233	.8091	.8615	.8894
.050	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.075	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.100	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.125	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.150	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.175	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.200	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.225	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.250	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.275	.1160	.3423	.6176	.7233	.8091	.8615	.8894
.300	.1160	.3423	.6176	.7233	.8091	.8615	.8894

ALPHA ( 4 ) = 8.035 BETA ( 1 ) = -3.862 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

DEPENDENT VARIABLE CP

SECTION 1 VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.5126	.3790	.2981	.2708	.2600	.2500	.2400
.000	.3382	.1526	.0982	.1197	.1171	.1116	.1076
.025	.3580	.1694	.0958	.1128	.1116	.1076	.1036
.050	.3727	.1618	.0937	.1065	.1076	.1036	.0996
.075	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.100	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.125	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.150	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.175	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.200	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.225	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.250	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.275	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.300	.3826	.1583	.0917	.1047	.1052	.1012	.0972

ALPHA ( 5 ) = 9.041 BETA ( 2 ) = .181 MACH = 1.0985 Q = 599.52 P = 709.77 RN/L = 3.1893

DEPENDENT VARIABLE CP

SECTION 1 VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.5126	.3790	.2981	.2708	.2600	.2500	.2400
.000	.3382	.1526	.0982	.1197	.1171	.1116	.1076
.025	.3580	.1694	.0958	.1128	.1116	.1076	.1036
.050	.3727	.1618	.0937	.1065	.1076	.1036	.0996
.075	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.100	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.125	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.150	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.175	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.200	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.225	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.250	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.275	.3826	.1583	.0917	.1047	.1052	.1012	.0972
.300	.3826	.1583	.0917	.1047	.1052	.1012	.0972

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.040 BETA ( 3 ) = 4.238 MACH = 1.0985 Q = 599.52 P = 709.77 RV/L = 3.1893  
 (XEBV30)

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6029	.3744	.2463	.1585	.0099	
.025	-.0330	-.3802	-.6103	-.7683	-.7439	-.7406	
.050	.0291	-.3330	-.6419	-.7263	-.7406	-.7090	
.100	.0523	-.2039	-.4007	-.4304	-.4379	-.4391	
.200	-.1324	-.2318	-.2752	-.3224	-.2450	-.2514	
.300	-.3127	-.3257	-.3284	-.3284	-.2450	-.2514	
.400	-.5454	-.6770	-.5895	-.5371	-.5170	-.7423	
.500	-.7455	-.6039	-.6113	-.5980	-.5753	-.6736	
.600	-.9467	-.4590	-.5992	-.5777	-.5968	-.6011	-.6743

ALPHA ( 5 ) = 11.975 BETA ( 1 ) = -3.843 MACH = 1.0970 Q = 599.10 P = 711.19 RV/L = 3.1892

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6416	.3609	.2305	.1826	.1744	
.025	.1831	.0222	.0269	.0606	.0611	.0559	
.050	.2750	.1148	.0297	.0488	.0559	.0208	
.100	.1392	.0093	-.0256	-.0065	-.0208	-.0673	
.200	-.0514	-.0969	-.0726	-.0414	-.0673	-.2499	
.300	-.1783	-.1727	-.1304	-.1377	-.2499	-.7438	
.400	-.6186	-.5731	-.5277	-.4703	-.5518	-.7438	
.500	-.9509	-.5688	-.4621	-.5012	-.5431	-.6463	
.600	-.9471	-.5001	-.4533	-.4377	-.5082	-.5731	

ALPHA ( 5 ) = 11.985 BETA ( 2 ) = .181 MACH = 1.0970 Q = 599.10 P = 711.19 RV/L = 3.1892

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6305	.3939	.2890	.2134	.1967	
.025	.0372	-.1798	-.3149	-.3327	-.4245	-.4245	
.050	.2353	.0133	-.2511	-.3336	-.3661	-.3661	
.100	.1298	-.0884	-.1566	-.1599	-.1392	-.1392	
.200	-.0744	-.1677	-.1810	-.1547	-.1332	-.1332	
.300	-.2487	-.2601	-.2575	-.1739	-.2495	-.2495	
.400	-.6073	-.6261	-.5713	-.5363	-.5500	-.7615	
.500	-.9582	-.6223	-.5765	-.5697	-.5845	-.6885	
.600	-.9435	-.5231	-.5463	-.5510	-.5920	-.6569	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.977 BETA ( 3 ) = 4.250 MACH = 1.0970 Q = 599.10 P = 711.19 PN/L = 3.1550

(XEBV30)

SECTION 1: IDENTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6330	.3587	.1848	.0553	.1109	
.025	-.0079	-.3992	-.6207	-.7351	-.8226		
.050	.0997	-.3482	-.5609	-.7403	-.8348		
.100	.0684	-.2113	-.4458	-.5014	-.6113		
.150	-.1553	-.2647	-.3073	-.4501	-.5329		
.200	-.3425	-.3619	-.3555	-.2683	-.3148		
.250	-.5871	-.6039	-.5503	-.5838	-.7285		
.300	-.4689	-.6247	-.6346	-.6181	-.5995		
		-.4762	-.6140	-.6016	-.6167		
					-.6142		
					-.6690		



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TABLATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV31) ( 13 AUG 75 )

REFERENCE DATA

REF = 100.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
REF = 474.6000 IN. YMRP = .0000 IN. YO  
REF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPOORX = 35.000  
BDFLAP = 16.300 L-ELVN = 10.000  
R-ELVN = .003 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -3.852 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4882	.3486		.4105		.5262	.4933
.025	.3441	.1935		.2212		.1522	.0402
.050	.3292	.1939		.2066		.1569	.0943
.100	.1800	.0385		.1121		.0830	.0418
.150	.0302	-.0331		.0086		.0081	-.0672
.200	-.1943	-.1671		-.1460		-.1579	-.2822
.250	-.4021	-.3912	-.2064	-.4234	-.5397	-.7898	-.5298
.300	-.2530	-.2324	-.2280	-.3620	-.3343	-.3506	-.4624
.350		-.2534	-.2933	-.3478	-.3343	-.3917	-.4073

ALPHA ( 1 ) = -3.975 BETA ( 2 ) = .187 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5777

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5543	.4477		.5212		.4422	.3530
.025	.0339	-.2778		-.4303		-.6281	-.6570
.050	.1561	-.0182		-.0818		-.3059	-.6025
.100	.0490	-.0833		-.1011		-.1763	-.1433
.150	-.1057	-.1408		-.1343		-.1268	-.1683
.200	-.2832	-.2945		-.2602		-.2298	-.2921
.250	-.4665	-.4550	-.2040	-.7417	-.8419	-.9436	-.5572
.300	-.7775	-.3381	-.3176	-.4577	-.4810	-.5252	-.4860
.350		-.2921	-.3271	-.3952	-.4106	-.4025	-.4426

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INSULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV31)

ALPHA ( 1 ) = -3.235    BETA ( 3 ) = 4.269    MACH = .89577    Q = 600.28    P = 1059.2    RN/L = 3.5777  
 DEPENDENT VARIABLE CP

Z B.    .1590    .3170    .4590    .6020    .6970    .8390    .9250

XCV

.4793    .3428    .2829    .0801    -.0091  
 .1920    .0828    -.9705    -.9731    -.8438  
 .1185    -.0968    -.9703    -.8473  
 .1118    -.0923    -.8501    -.7760  
 .0791    -.0970    -.7072    -.7346  
 .0718    -.0916    -.5086    -.5876  
 .0668    -.0853    -.9379    -.7981    -.4955  
 .0619    -.0793    -.7181    -.6638    -.4666  
 .0574    -.0747    -.3295    -.3688    -.4235

ALPHA ( 1 ) = -3.002    BETA ( 1 ) = -3.870    MACH = .89780    Q = 598.63    P = 1060.9    RN/L = 3.5706

DEPENDENT VARIABLE CP

Z B.    .1590    .3170    .4590    .6020    .6970    .8390    .9250

.3359    .4588    .4195  
 .1934    .1342    .0289  
 .1712    .1373    .0776  
 .0820    .0629    .0164  
 .0165    -.0074    -.0918  
 .1572    -.1944    -.2833  
 .3567    -.4741    -.6593    -.4916  
 .2627    -.3334    -.3532    -.4243  
 .1345    -.3346    -.3920    -.3471

ALPHA ( 1 ) = -3.002    BETA ( 2 ) = .194    MACH = .89780    Q = 598.63    P = 1060.9    RN/L = 3.5706

DEPENDENT VARIABLE CP

Z B.    .1590    .3170    .4590    .6020    .6970    .8390    .9250

.1531    .3689    .2669  
 .4722    -.5736    -.6512  
 .1191    -.3569    -.6027  
 .1358    -.1996    -.1697  
 .1511    -.1452    -.1841  
 .2734    -.2747    -.3080  
 .1621    -.8986    -.5216  
 .1049    -.4481    -.4752  
 .0413    -.4264    -.4166

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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IXE8V311  
P = 1050.9 RN/L = 3.5706

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

BETA ( 3 ) = 4.247 MACH = .89780 Q = 598.63 P

DEPENDENT VARIABLE CP

Z-B, 1590 3170 4590 5020 6970 8390 9250

X/CV  
1000 .4211 .2701 .2037 -.0261 -.1322  
1005 .2782 .1790 .1391 -.0826 -.8205  
1010 .1875 .1006 .0936 -.0932 -.8146  
1015 .1084 .0590 .0511 -.0958 -.7228  
1020 .0292 .0229 .0439 -.0783 -.6554  
1025 .0531 .0542 .0487 -.04917 -.5254  
1030 .0411 .0402 .04205 -.0624 -.4982  
1035 .0378 .0368+ .04277 -.04241 -.4734  
1040 .0339 .0329 .04397 -.03577 -.4133  
1045 .0304 .0294 .03872 MACH = .89870

SECTION 1 VERTICAL  
Z-B, 1590 3170 4590 5020 6970 8390 9250  
X/CV  
1000 .3773 .2271 .2717 .3987 .3522  
1005 .1921 .0522 .1712 .1157 .0220  
1010 .1878 .0701 .1483 .1187 .0584  
1015 .0459 .0273 .0556 .0454 .0073  
1020 .0293 .0293 .0300 .0300 .1148  
1025 .0233 .0135+ .01541 .0272 .2961  
1030 .01762 .03458 .03943 .0279 .4935  
1035 .02395 .03312 .03210 .03616 .4088  
1040 .02632 .02702 .03350 .03494 .3058  
1045 .0232 .0232 .03550 .03856 .3058

DEPENDENT VARIABLE CP

RN/L = 3.5709

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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IXE8V311  
P = 1050.9 RN/L = 3.5706

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

BETA ( 3 ) = 4.247 MACH = .89780 Q = 598.63 P

DEPENDENT VARIABLE CP

Z-B, 1590 3170 4590 5020 6970 8390 9250

X/CV  
1000 .4211 .2701 .2037 -.0261 -.1322  
1005 .2782 .1790 .1391 -.0826 -.8205  
1010 .1875 .1006 .0936 -.0932 -.8146  
1015 .1084 .0590 .0511 -.0958 -.7228  
1020 .0292 .0229 .0439 -.0783 -.6554  
1025 .0531 .0542 .0487 -.04917 -.5254  
1030 .0411 .0402 .04205 -.0624 -.4982  
1035 .0378 .0368+ .04277 -.04241 -.4734  
1040 .0339 .0329 .04397 -.03577 -.4133  
1045 .0304 .0294 .03872 MACH = .89870

SECTION 1 VERTICAL  
Z-B, 1590 3170 4590 5020 6970 8390 9250  
X/CV  
1000 .3773 .2271 .2717 .3987 .3522  
1005 .1921 .0522 .1712 .1157 .0220  
1010 .1878 .0701 .1483 .1187 .0584  
1015 .0459 .0273 .0556 .0454 .0073  
1020 .0293 .0293 .0300 .0300 .1148  
1025 .0233 .0135+ .01541 .0272 .2961  
1030 .01762 .03458 .03943 .0279 .4935  
1035 .02395 .03312 .03210 .03616 .4088  
1040 .02632 .02702 .03350 .03494 .3058  
1045 .0232 .0232 .03550 .03856 .3058

DEPENDENT VARIABLE CP

RN/L = 3.5709



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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV31)

REF. 1) = 8.593 BETA (3) = 4.2+5 MACH = .89807 Q = 598.57 P = 1060.2 RN/L = 3.5677

DEPENDENT VARIABLE CP

CP	1580	3170	4590	6020	6970	8390	9250
1580							
3170							
4590							
6020							
6970							
8390							
9250							

DEPENDENT VARIABLE CP

CP	1580	3170	4590	6020	6970	8390	9250
1580							
3170							
4590							
6020							
6970							
8390							
9250							

DEPENDENT VARIABLE CP

CP	1580	3170	4590	6020	6970	8390	9250
1580							
3170							
4590							
6020							
6970							
8390							
9250							

Q = 598.01 P = 1061.4 RN/L = 3.5714

Q = 598.01 P = 1061.4 RN/L = 3.5714

DATE 14 FEB 76

TABULATED PRESSURE DAY

AMES 11-7 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.975

BETA ( 3 ) = 4.259

AMES 11-7

140A/9/C/R ORB VERTICAL

(XEBV31)

SECTION: ( INVERTICAL

DEP

0 = 598.01

P

= 1061.4

RN/L = 3.5714

Z-BV

.1580

.3170

.4590

.6020

.9250

X/CV

.000

.3409

.1397

-.0198

-.4712

.025

-.1431

-.6458

-.9480

-.9764

.050

-.0565

-.5279

-.9390

-.8586

.100

-.1495

-.4094

-.6329

-.9023

.300

-.3284

-.4163

-.5517

-.8375

.520

-.4913

-.4633

-.4969

-.7579

.695

-.4288

-.4267

-.4194

-.5668

.775

-.3106

-.3706

-.4033

-.4949

.901

-.3656

-.4717

-.4933

-.4039

-.3724

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV32) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0500 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDRK = 35.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = .000 MACH = .600

ALPHA ( 1 ) = -4.052 BETA ( 1 ) = -7.850 MACH = .59664 0 = 594.68 P = 2386.3 RN/L = 4.8170  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.0834	-.1457
.025	.4521	.3929
.050	.4014	.3457
.150	.2430	.2039
.300	.0991	.0661
.500	-.1758	-.1120
.695	-.2957	-.2332
.775	-.2273	-.2121
.800		-.2937
		-.3273
		-.3121
		-.2764
		-.2252
		-.2289

ALPHA ( 1 ) = -4.036 BETA ( 2 ) = -3.835 MACH = .59664 0 = 594.68 P = 2386.3 RN/L = 4.8170  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.3568	.3060
.025	.2734	.1736
.050	.2589	.1717
.150	.1237	.0576
.300	-.0083	-.0452
.500	-.2513	-.1945
.695	-.3251	-.2828
.775	-.2279	-.2503
.800		-.3072
		-.3590
		-.3460
		-.3219
		-.2634
		-.2414

ORIGINAL DATA IS  
 OF POOR QUALITY

DATE 14 FEB 76

## TABULATED PRESSURE DATA - 0A14B ( AMES 11-073-1 )

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AMES 11-073(0A14B) - 140A/B/C/R ORB VERTICAL

(XEBV32)

ALPHA ( 1 ) = -4.020 BETA ( 3 ) = .192 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 1 ) VERTICAL

Z (V) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (V) .4912 .4461 .4419 .6717 .2990 .3099  
 .025 -.0872 -.4380 .4823 -.3867  
 .050 .0492 -.0844 .2169 .3440 .5723  
 .150 .0165 -.1214 .1584 .2216 .1987  
 .200 .1252 .1719 .1723 .1985 .2147  
 .300 .3215 .2819 .3274 .2977 .3088  
 .400 .3178 .3377 .1885 .4037 .4529  
 .500 .2775 .2926 .3439 .2548 .3498  
 .600 .2483 .3386 .3967 .3761 .3317  
 .700 .2243 .3386 .3967 .3761 .3317  
 .800 .2003 .3386 .3967 .3761 .3317  
 .900 .1763 .3386 .3967 .3761 .3317

ALPHA ( 4 ) = -4.020 BETA ( 4 ) = .273 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 4 ) VERTICAL

Z (V) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (V) .2891 .1049 .0385 .9221 .2658 .3029  
 .025 .3829 .6748 .7765 .7491 .7491 .7491  
 .050 .3735 .5626 .8714 .7491 .7491 .7491  
 .150 .2822 .4724 .6011 .6621 .7911 .7911  
 .200 .2513 .3321 .4589 .5129 .4667 .4667  
 .300 .2401 .3272 .4622 .4268 .3844 .3844  
 .400 .2373 .3283 .1915 .4664 .5596 .5159  
 .500 .2283 .3263 .3861 .4075 .4278 .4018  
 .600 .2283 .3263 .4290 .4605 .4122 .3438  
 .700 .2283 .3263 .4290 .4605 .4122 .3438  
 .800 .2283 .3263 .4290 .4605 .4122 .3438  
 .900 .2283 .3263 .4290 .4605 .4122 .3438

ALPHA ( 5 ) = -4.045 BETA ( 5 ) = 8.346 MACH = .59664 Q = 594.68 P = 2386.3 RN/L = 4.8170

SECTION ( 5 ) VERTICAL

Z (V) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (V) .2891 .1049 .0385 .9221 .2658 .3029  
 .025 .3829 .6748 .7765 .7491 .7491 .7491  
 .050 .3735 .5626 .8714 .7491 .7491 .7491  
 .150 .2822 .4724 .6011 .6621 .7911 .7911  
 .200 .2513 .3321 .4589 .5129 .4667 .4667  
 .300 .2401 .3272 .4622 .4268 .3844 .3844  
 .400 .2373 .3283 .1915 .4664 .5596 .5159  
 .500 .2283 .3263 .3861 .4075 .4278 .4018  
 .600 .2283 .3263 .4290 .4605 .4122 .3438  
 .700 .2283 .3263 .4290 .4605 .4122 .3438  
 .800 .2283 .3263 .4290 .4605 .4122 .3438  
 .900 .2283 .3263 .4290 .4605 .4122 .3438



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .034 BETA ( 1 ) = -7.883 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132  
(XEBV32)

SECTION ( 1 ) INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1500	.3170	.4500	.6020	.6970	.8390	.9250
X/CV							
.000	.0114	-.2280		-.0569		.1567	.1081
.025	.4128	.3591		.4014		.3495	.2997
.050	.3591	.3071		.3382		.3020	.2633
.100	.2015	.1754		.1969		.1688	.1168
.200	.0666	.0422		.0395		.0514	-.0075
.300	-.1954	-.1189		-.1286		-.1189	.1849
.400	-.3004	-.2315	-.1655	-.2554	-.2365	-.2580	-.3507
.500	-.2283	-.2080	-.2269	-.2547	-.2339	-.2330	-.2621
.600		-.2862	-.3236	-.3212	-.2916	-.2151	-.2092

ALPHA ( 2 ) = .043 BETA ( 2 ) = -3.857 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( 1 ) INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3314	.2376		.3393		.4322	.3985
.025	.2248	.1435		.1473		.0792	-.0205
.050	.0555	.1372		.1281		.0868	.0458
.100	.0878	.0315		.0452		.0107	-.0148
.200	-.0385	-.0527		-.0458		-.0636	-.0953
.300	-.2624	-.1985		-.2215		-.2005	.2442
.400	-.3020	-.2933	-.1655	-.3395	-.3097	-.3732	-.3994
.500	-.2282	-.2501	-.2834	-.3104	-.2943	-.2874	-.2916
.600		-.3051	-.3633	-.3510	-.3203	-.2451	-.2333

ALPHA ( 2 ) = .045 BETA ( 3 ) = .186 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132

SECTION ( 1 ) INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4441	.3929		.3882		.2389	.2229
.025	-.1214	-.4509		-.6046		-.4863	-.8536
.050	.0047	-.1211		-.2336		-.3637	-.5668
.100	-.0614	-.1450		-.1728		-.2279	-.2111
.200	-.1593	-.1916		-.1797		-.2036	-.2225
.300	-.3242	-.2891		.3302		-.2985	-.3062
.400	-.3147	-.3358	-.1723	-.4334	-.4034	-.4942	-.4453
.500	-.2490	-.2891	-.3397	-.3798	-.3599	-.3496	-.3312
.600		-.3304	-.3955	-.4034	-.3670	-.2899	-.2545

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TABULATED PRESSURE DATA - DAI48 ( AMES 11-073-1 )

PAGE 6760

ALPHA ( 2 ) = .041 BETA ( 4 ) = 4.251 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8132  
(XE8V32)

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z RV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2349 .0477 .1228 .3585 .3361  
.025 .4116 .0861 .1310 .7707 .13120  
.050 .3703 .0611 .8905 .7362 .11299  
.075 .3352 .0490 .6640 .6720 .7941  
.100 .2977 .0349 .4641 .5539 .5108  
.125 .4097 .0577 .4490 .4327 .3706  
.150 .3421 .0763 .1779 .4558 .5415 .4943  
.175 .2661 .0953 .3892 .4051 .4154 .3869  
.200 .2561 .1246 .4365 .4126 .3383 .3286

ALPHA ( 2 ) = .035 BETA ( 5 ) = 8.312 MACH = .59622

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z RV .1590 .3170 .4590 .6020 .6970 .8390 .9250

.000 .1718 .0621 .7681 .7197 .5687  
.025 .7131 .0314 .11539 .7674 .6472  
.050 .7185 .0045 .11781 .7603 .6229  
.075 .6264 .0018 .11828 .7240 .6057  
.100 .4711 .0242 .11095 .6590 .5729  
.125 .4642 .0295 .7258 .5811 .5371  
.150 .3821 .0415 .1944 .5312 .7003 .5491 .5026  
.175 .3130 .0549 .3897 .4930 .5874 .5262 .4694  
.200 .2730 .0757 .4521 .4295 .5232 .4812 .4010

ALPHA ( 2 ) = .041 BETA ( 1 ) = 7.879 MACH = .59602

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z RV .1590 .3170 .4590 .6020 .6970 .8390 .9250

.000 .1190 .0291 .1407 .0692 .0288  
.025 .3847 .0313 .3578 .3115 .2721  
.050 .3116 .0683 .3018 .2760 .2298  
.075 .2534 .0795 .2687 .2439 .0971  
.100 .2363 .0823 .0742 .0359 .0182  
.125 .2034 .1214 .11366 .1173 .1722  
.150 .1566 .1566 .2543 .2435 .2687 .3363  
.175 .2335 .2335 .2558 .2361 .2350 .2565  
.200 .2318 .2318 .3309 .3312 .3054 .2069 .1903

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.015 BETA ( 2 ) = -3.855 MACH = .59602 Q = 593.50 P = 2386.4 RN/L = 4.8147  
(XEBV32)

SECTION ( 1 ) VERTICAL

Z/8V	X/CV	DEPENDENT VARIABLE CP
.1590	.3170	.4590 .6020 .6970 .8390 .9250
.000	.2986	.1900
.025	.1795	.1083
.050	.1665	.1055
.100	.0417	.0007
.200	-.0731	-.0860
.300	-.2695	-.2049
.400	-.3021	-.2816
.500	-.2275	-.2434
.600	-.3078	-.3339
.700	-.1603	-.3303
.800	-.2895	-.3113
.900	-.3542	-.3539
		-.3162
		-.2302
		-.2161

ALPHA ( 3 ) = 4.015 BETA ( 3 ) = .196 MACH = .59602

SECTION ( 1 ) VERTICAL

Z/8V	X/CV	DEPENDENT VARIABLE CP
.1590	.3170	.4590 .6020 .6970 .8390 .9250
.000	.4077	.3450
.025	-.1600	-.4763
.050	-.0323	-.1419
.100	-.0983	-.1728
.200	-.1893	-.2054
.300	-.3418	-.2935
.400	-.3178	-.3473
.500	-.2498	-.2816
.600	-.3268	-.3268

ALPHA ( 3 ) = 4.015 BETA ( 4 ) = 4.243 MACH = .59602

SECTION ( 1 ) VERTICAL

Z/8V	X/CV	DEPENDENT VARIABLE CP
.1590	.3170	.4590 .6020 .6970 .8390 .9250
.000	.2005	-.0220
.025	-.4437	-.7560
.050	-.4437	-.5580
.100	-.3336	.5031
.200	-.3132	.4412
.300	-.3439	-.3474
.400	-.3034	-.3675
.500	-.2438	-.3073
.600	-.1725	-.4707
.700	-.3937	-.4242
.800	-.4285	-.4343
.900	-.4592	-.4072
		-.3256
		-.3150
		-.4310
		-.7721
		-1.1196
		-.7440
		-.9552
		-.7050
		-.7630
		-.6472
		-.5350
		-.4436
		-.3570
		-.5292
		-.4499
		-.3948
		-.3726

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV32)

ALPHA ( 3 ) = 4.019 BETA ( 5 ) = 8.295 MACH = .59602 Q = 593.50 P = 2386.4 RAV/L = 4.8147

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 34 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2353	-.7096	-.6508	-.8251	-.6937
.025	-.7190	-.3123	-.1079	-.8148	.6530
.050	-.7634	-.1089	-.1076	-.8004	-.6414
.075	-.9666	-.1163	-.11291	-.7671	-.6002
.100	-.4675	-.6936	-.10972	-.7086	-.5774
.125	-.4760	-.4184	-.7329	-.5862	-.5218
.150	-.3716	-.3993	-.5136	-.5565	.4978
.175	-.3716	-.3993	-.3983	-.5371	-.4613
.200	-.3716	-.3993	-.4508	-.4920	-.3928

ALPHA ( 4 ) = 8.039

BETA ( 11 ) =

MACH = .59636

Q = 594.21

P

= 2386.7

RAV/L

= 4.8181

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 34 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2661	-.3517	-.2357	.0551	-.0115
.025	-.3256	-.2631	.3277	.2803	.2315
.050	-.2640	-.2600	.2730	.2497	.2023
.075	-.1400	.1311	.1523	.1277	.0764
.100	-.2510	.0089	.0679	.0299	-.0306
.125	-.2510	-.1193	-.1301	-.1072	-.1739
.150	-.2510	-.2221	-.2359	-.2208	-.3175
.175	-.2510	-.1959	-.2286	-.2027	-.2415
.200	-.2510	-.2797	-.3243	-.2613	-.1695

ALPHA ( 4 ) = 8.039

BETA ( 2 ) =

MACH = .59636

Q = 594.21

P

= 2386.7

RAV/L

= 4.8181

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 34 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2786	.11	.2183	.3045	.2706
.025	-.1397	.0955	.1094	.0516	-.0242
.050	-.1382	.1201	.0938	.0559	.0102
.075	-.0171	-.0119	.0139	-.0193	-.0476
.100	-.0643	.0957	-.0675	-.0784	-.1141
.125	-.2753	.0006	-.2269	-.1988	-.2371
.150	-.3192	-.2753	-.3236	-.3089	-.3896
.175	-.3160	-.2379	-.3108	-.2865	-.2886
.200	-.3160	-.3002	-.3571	-.2782	-.2886

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV32)

ALPHA ( 4 ) = 9.087 BETA ( 3 ) = .188 MACH = .59636 Q = 594.21 P = 2386.7 RV/L = 4.8181

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.0500	.3170	.4590	.6020	.6970	.8390	.9250
100	.2873	.2335	.2771	.1152	.0761		
200	.1772	.1538	.1534	.1490	.1490		
300	.0522	.0517	.2372	.4190	.5236		
400	.1186	.1185	.1836	.2323	.2395		
500	.2132	.2193	.2139	.2110	.2199		
600	.3519	.3217	.3255	.2828	.2936		
700	.3116	.3231	.4100	.4632	.4364		
800	.1278	.1250	.13406	.13706	.13364		
900	.12365	.13891	.13368	.13682	.12833		

ALPHA ( 4 ) = 9.086 BETA ( 4 ) = 4.243 MACH = .59636 Q = 594.21 P = 2386.7 RV/L = 4.8181

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.0500	.3170	.4590	.6020	.6970	.8390	.9250
100	.1713	.10602	.2489	.4989	.7723		
200	.14541	.17021	.1898	.7723	.9053		
300	.14137	.16324	.18940	.7541	.8060		
400	.3753	.4612	.7588	.7675	.7170		
500	.3353	.3355	.4095	.7260	.5456		
600	.4128	.3353	.4211	.3899	.3803		
700	.2997	.3575	.1696	.4371	.4684		
800	.2972	.3121	.13712	.1358	.3535		
900	.1713	.1713	.14192	.14008	.2866		

ALPHA ( 4 ) = 9.092 BETA ( 5 ) = 8.301 MACH = .59636 Q = 594.21 P = 2386.7 RV/L = 4.8181

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.0500	.3170	.4590	.6020	.6970	.8390	.9250
100	.2329	.1769	.9223	.9156	.7933		
200	.1758	.13116	.10502	.8393	.6665		
300	.2174	.11265	.10659	.8319	.6120		
400	.1719	.11585	.10940	.8117	.6024		
500	.14731	.15501	.10968	.7476	.5532		
600	.14413	.14153	.7363	.6354	.4956		
700	.13171	.13228	.2063	.6017	.4876		
800	.1359	.13735	.4271	.5181	.4551		
900	.1359	.13735	.4031	.4707	.4094		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 5753

ALPHA ( 5 ) = 12.033 BETA ( 4 ) = 4.256 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175  
(XE8V32)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/EV	.1520	.3170	.4590	.6020	.6970	.8390	.9250
X/CO							
.000	.1990	-.1114	-.3365	-.5866	-.5782		
.025	-.4550	-.7435	-.8980	-.7875	-.7196		
.050	-.4270	-.7186	-.9154	-.7740	-.6680		
.075	-.3710	-.5954	-.7896	-.7839	-.6438		
.100	-.3512	-.3647	-.3990	-.8052	-.5893		
.125	-.4110	-.3460	-.4167	-.3912	-.4705		
.150	-.2353	-.3603	-.1866	-.4370	-.4496		
.175	-.2623	-.3265	-.3878	-.4264	-.3379		
.200	-.3209	-.3509	-.4445	-.4354	-.3955		

ALPHA ( 5 ) = 12.024 BETA ( 5 ) = 8.318 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8175

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/EV	.1520	.3170	.4590	.6020	.6970	.8390	.9250
X/CO							
.000	-.2925	-.8326	-1.0334	-.9789	-.8314		
.025	-.8261	-1.2355	-1.0334	-.8366	-.6442		
.050	-.9136	-1.1373	-1.0610	-.8225	-.6218		
.075	-.8421	-1.2243	-1.1008	-.8054	-.5900		
.100	-.5624	-.6090	-1.1291	-.7594	-.5228		
.125	-.5802	-.3508	-.7632	-.6403	-.4607		
.150	-.4657	-.3579	-.2026	-.6337	-.5906		
.175	-.3320	-.3332	-.3865	-.4287	-.5485		
.200	-.3568	-.3568	-.4399	-.4041	-.4920		

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TABLED PRESSURE DATA - 04148 ( AMES 11-073-1 )  
AMES 11-073(04148) -140A/B/C/R OR3 VERTICAL

PRICE 5765  
(XEBV33) 1 13 AUG 75

REFERENCE DATA

CRSF = 2890.0000 SQ.FT. XREF = 1076.6900 IN. XO  
LREF = 47.8000 IN. YREF = .0000 IN. YO  
SREF = 935.6800 IN. ZREF = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA  
RUDDER = 10.000 SPDERK = 35.000  
SCFLAP = 15.300 L-ELEV = .000  
R-ELEV = 10.000 MACH = 1.400

ALPHA ( 1 ) = -4.110 BETA ( 1 ) = -3.848 MACH = 1.3952 Q = 599.12 P = -39.71 RWL = 2.9043  
SECTION ( 1 ) VERTICAL

Z SV	.1590	.3170	.4750	.6020	.6970	.8390	.9250
1.000	.7327	.6899	.6442	.6070	.5720	.5390	.5070
1.250	.6900	.6473	.6046	.5670	.5320	.4990	.4670
1.500	.6473	.6046	.5619	.5240	.4890	.4560	.4240
1.750	.6046	.5619	.5192	.4810	.4460	.4130	.3810
2.000	.5619	.5192	.4765	.4380	.4030	.3700	.3380
2.250	.5192	.4765	.4338	.3950	.3600	.3270	.2950
2.500	.4765	.4338	.3911	.3520	.3170	.2840	.2520
2.750	.4338	.3911	.3484	.3090	.2740	.2410	.2090
3.000	.3911	.3484	.3057	.2660	.2310	.1980	.1660
3.250	.3484	.3057	.2630	.2240	.1890	.1560	.1240
3.500	.3057	.2630	.2203	.1810	.1460	.1130	.0810
3.750	.2630	.2203	.1776	.1380	.1030	.0700	.0380
4.000	.2203	.1776	.1349	.0950	.0600	.0270	.0000
4.250	.1776	.1349	.0922	.0530	.0180	-.0150	-.0430
4.500	.1349	.0922	.0495	.0100	-.0250	-.0580	-.0860
4.750	.0922	.0495	.0068	-.0330	-.0680	-.1010	-.1290
5.000	.0495	.0068	-.0359	-.0710	-.1040	-.1370	-.1650
5.250	.0068	-.0359	-.0719	-.1070	-.1390	-.1720	-.2000
5.500	-.0359	-.0719	-.1079	-.1430	-.1750	-.2080	-.2360
5.750	-.0719	-.1079	-.1439	-.1790	-.2110	-.2440	-.2720
6.000	-.1079	-.1439	-.1799	-.2150	-.2470	-.2800	-.3080
6.250	-.1439	-.1799	-.2159	-.2510	-.2830	-.3160	-.3440
6.500	-.1799	-.2159	-.2519	-.2870	-.3190	-.3520	-.3800
6.750	-.2159	-.2519	-.2879	-.3230	-.3550	-.3880	-.4160
7.000	-.2519	-.2879	-.3239	-.3590	-.3910	-.4240	-.4520
7.250	-.2879	-.3239	-.3599	-.3950	-.4270	-.4600	-.4880
7.500	-.3239	-.3599	-.3959	-.4310	-.4630	-.4960	-.5240
7.750	-.3599	-.3959	-.4319	-.4670	-.4990	-.5320	-.5600
8.000	-.3959	-.4319	-.4679	-.5030	-.5350	-.5680	-.5960
8.250	-.4319	-.4679	-.5039	-.5390	-.5710	-.6040	-.6320
8.500	-.4679	-.5039	-.5399	-.5750	-.6070	-.6400	-.6680
8.750	-.5039	-.5399	-.5759	-.6110	-.6430	-.6760	-.7040
9.000	-.5399	-.5759	-.6119	-.6470	-.6790	-.7120	-.7400
9.250	-.5759	-.6119	-.6479	-.6830	-.7150	-.7480	-.7760
9.500	-.6119	-.6479	-.6839	-.7190	-.7510	-.7840	-.8120
9.750	-.6479	-.6839	-.7199	-.7550	-.7870	-.8200	-.8480
10.000	-.6839	-.7199	-.7559	-.7910	-.8230	-.8560	-.8840

ALPHA ( 2 ) = -4.105 BETA ( 2 ) = .195 MACH = 1.3952 Q = 599.12 P = -39.71 RWL = 2.9043  
SECTION ( 2 ) VERTICAL

Z SV	.1590	.3170	.4750	.6020	.6970	.8390	.9250
1.000	.7327	.6899	.6442	.6070	.5720	.5390	.5070
1.250	.6900	.6473	.6046	.5670	.5320	.4990	.4670
1.500	.6473	.6046	.5619	.5240	.4890	.4560	.4240
1.750	.6046	.5619	.5192	.4810	.4460	.4130	.3810
2.000	.5619	.5192	.4765	.4380	.4030	.3700	.3380
2.250	.5192	.4765	.4338	.3950	.3600	.3270	.2950
2.500	.4765	.4338	.3911	.3520	.3170	.2840	.2520
2.750	.4338	.3911	.3484	.3090	.2740	.2410	.2090
3.000	.3911	.3484	.3057	.2660	.2310	.1980	.1660
3.250	.3484	.3057	.2630	.2240	.1890	.1560	.1240
3.500	.3057	.2630	.2203	.1810	.1460	.1130	.0810
3.750	.2630	.2203	.1776	.1380	.1030	.0700	.0380
4.000	.2203	.1776	.1349	.0950	.0600	.0270	.0000
4.250	.1776	.1349	.0922	.0530	.0180	-.0150	-.0430
4.500	.1349	.0922	.0495	.0100	-.0250	-.0580	-.0860
4.750	.0922	.0495	.0068	-.0330	-.0680	-.1010	-.1290
5.000	.0495	.0068	-.0359	-.0710	-.1040	-.1370	-.1650
5.250	.0068	-.0359	-.0719	-.1070	-.1390	-.1720	-.2000
5.500	-.0359	-.0719	-.1079	-.1430	-.1750	-.2080	-.2360
5.750	-.0719	-.1079	-.1439	-.1790	-.2110	-.2440	-.2720
6.000	-.1079	-.1439	-.1799	-.2150	-.2470	-.2800	-.3080
6.250	-.1439	-.1799	-.2159	-.2510	-.2830	-.3160	-.3440
6.500	-.1799	-.2159	-.2519	-.2870	-.3190	-.3520	-.3800
6.750	-.2159	-.2519	-.2879	-.3230	-.3550	-.3880	-.4160
7.000	-.2519	-.2879	-.3239	-.3590	-.3910	-.4240	-.4520
7.250	-.2879	-.3239	-.3599	-.3950	-.4270	-.4600	-.4880
7.500	-.3239	-.3599	-.3959	-.4310	-.4630	-.4960	-.5240
7.750	-.3599	-.3959	-.4319	-.4670	-.4990	-.5320	-.5600
8.000	-.3959	-.4319	-.4679	-.5030	-.5350	-.5680	-.5960
8.250	-.4319	-.4679	-.5039	-.5390	-.5710	-.6040	-.6320
8.500	-.4679	-.5039	-.5399	-.5750	-.6070	-.6400	-.6680
8.750	-.5039	-.5399	-.5759	-.6110	-.6430	-.6760	-.7040
9.000	-.5399	-.5759	-.6119	-.6470	-.6790	-.7120	-.7400
9.250	-.5759	-.6119	-.6479	-.6830	-.7150	-.7480	-.7760
9.500	-.6119	-.6479	-.6839	-.7190	-.7510	-.7840	-.8120
9.750	-.6479	-.6839	-.7199	-.7550	-.7870	-.8200	-.8480
10.000	-.6839	-.7199	-.7559	-.7910	-.8230	-.8560	-.8840



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV33)

ALPHA ( 1 ) = -4.114 BETA ( 3 ) = 4.277 MACH = 1.3952 Q = 599.12 P = 439.71 RN/L = 2.9043

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7593	.6634	.6122	.5498	.4632
.025	.0994	-.0730	-.2599	-.3806	-.2932
.050	.1140	-.0915	-.2996	-.3832	-.2659
.075	.150	.0328	-.0637	-.3195	-.1115
.100	.2039	.0832	-.0317	.1853	.0287
.125	.2687	.0113	.3145	.4196	.3442
.150	.3333	.2944	-.1639	.4653	.4665
.175	.3935	.2250	.3871	.4366	.3819
.200		.1424	.2943	.3439	.2136

ALPHA ( 2 ) = -10.49 BETA ( 1 ) = -3.865 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7180	.5859	.5720	.5673	.5605
.025	.5242	.4419	.3947	.4564	.5452
.050	.5428	.4417	.3328	.4784	.5334
.075	.4476	.3412	.3147	.4989	.4796
.100	.3105	.2549	.2741	.5287	.4515
.125	.1828	.1495	.6285	.5559	.5015
.150	.3475	.4207	-.1557	.6226	.5999
.175	.7393	.7379	.4957	.5346	.4675
.200		.2628	.4231	.4221	.2675

ALPHA ( 2 ) = -10.46 BETA ( 2 ) = .181 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.9098

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7597	.6703	.6242	.5700	.4727
.025	.0254	.1203	-.0189	-.0441	-.0638
.050	.1322	.0879	.0113	-.0185	-.0267
.075	.2023	.2155	.1635	.1618	.3402
.100	.2272	.1483	.1394	.4239	.3870
.125	.0721	.0546	.4268	.5025	.4427
.150	-.1559	.3420	.5594	.5489	.5765
.175	.3571	.3972	.4553	.4898	.4436
.200		.1249	.3843	.3853	.2351

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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ALPHA ( 2 ) = -.050 BETA ( 3 ) = 4.256 MACH = 1.3944 Q = 599.11 P = 440.18 RN/L = 2.5036  
 SECTION 1 VERTICAL (XERN33)

DEPENDENT VARIABLE CP

Z 2V .1590 3170 .4030 .6020 .6970 .8390 .9250

X/CO

.000 .6993 .1590 .5363 .4654 .3564  
 .005 .0330 .1259 .2947 .4779 .4260  
 .010 .0604 .1359 .4642 .4160  
 .015 .0823 .1423 .3502 .3524  
 .020 .1008 .1508 .2753 .1909 .0853  
 .025 .1161 .1641 .2556 .3471 .3202  
 .030 .1286 .1746 .2390 .3919 .3989 .1506  
 .035 .1386 .1806 .2247 .3699 .3363 .2376  
 .040 .1462 .1852 .2120 .2896 .1960 .3103

ALPHA ( 3 ) = 3.635 BETA ( 1 ) = -3.869 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 2V .1590 3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000 .6993 .1590 .5372 .4655 .4808  
 .005 .0330 .1259 .3244 .3188 .4544  
 .010 .0604 .1359 .3228 .3228 .4499  
 .015 .0823 .1423 .2774 .2839 .4192  
 .020 .1008 .1508 .2323 .2970 .3850  
 .025 .1161 .1641 .2027 .2965 .4447  
 .030 .1286 .1746 .1829 .5636 .5424 .2010  
 .035 .1386 .1806 .1728 .4973 .4216 .2171  
 .040 .1462 .1852 .1570 .3784 .2444 .3596

ALPHA ( 3 ) = 3.635 BETA ( 2 ) = 190 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 2V .1590 3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000 .6993 .1590 .5372 .4724 .3800  
 .005 .0330 .1259 .2947 .0759 .1354  
 .010 .0604 .1359 .2930 .0619 .0901  
 .015 .0823 .1423 .2066 .1046 .2109  
 .020 .1008 .1508 .1633 .3397 .3252  
 .025 .1161 .1641 .1409 .4343 .3814  
 .030 .1286 .1746 .1059 .5087 .5095  
 .035 .1386 .1806 .0849 .4220 .3968 .2481  
 .040 .1462 .1852 .0527 .3314 .2123 .3518

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -14CA/B/C/R ORE VERTICAL

(XEBV33)

ALPHA ( 3 ) = 3.895 BETA ( 3 ) = 4.246 MACH = 1.3948 Q = 599.42 P = 440.18 RN/L = 2.9147

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5873	.5375	.4553	.3771	.2867	
	.025	-.1142	-.1572	-.3445	-.4823	.4743	
	.050	-.0242	-.1419	-.3731	-.4773	-.4504	
	.150	.1396	-.0359	-.1499	-.3655	-.4112	
	.300	.0992	-.0125	-.1029	.0981	.0587	
	.520	-.0749	-.1051	.2026	.2825	.2416	
	.685	-.3744	.1496	-.1641	.3232	.3489	-.1752
	.775	-.3526	.0987	.2277	.3012	.3062	-.2434
	.900		.0251	.1629	.2371	.1734	-.3272

ALPHA ( 4 ) = 7.947 BETA ( 1 ) = -3.865 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5936	.4855	.4239	.3772	.3780	
	.025	.2644	.2864	.2310	.2393	.3255	
	.050	.3575	.3044	.2355	.2379	.3448	
	.150	.2851	.2124	.1779	.2702	.3556	
	.300	.1520	.1246	.1305	.4489	.3274	
	.520	.0404	.0354	.4500	.4379	.3891	
	.685	-.4151	.3232	-.1813	.4836	.4794	-.2199
	.775	-.5287	.2419	.3465	.4249	.3753	-.2293
	.900		.1737	.2929	.3303	.2153	-.3908

ALPHA ( 4 ) = 7.946 BETA ( 2 ) = .185 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6835	.5252	.4418	.3828	.3091	
	.025	.1856	.0386	-.0908	-.1109	-.1675	
	.050	.3404	.2089	-.0877	-.1121	-.1269	
	.150	.2945	.1129	.0557	.0427	.0603	
	.300	.1131	.0345	.0238	.2427	.2541	
	.520	-.0403	-.0541	.3288	.3535	.3219	
	.685	-.4353	.2154	-.1704	.3880	.4344	-.2212
	.775	-.2499	.1392	.2550	.3494	.3441	-.2590
	.900		.0518	.1889	.2690	.1820	-.3797

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV33)

ALPHA ( 4 ) = 7.944 BETA ( 3 ) = 4.238 MACH = 1.3944 Q = 599.72 P = 440.65 RN/L = 2.9146

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .5632 .5064 .3872 .2925 .2374

.025 .0980 .1511 .3535 .4725 .4748

.050 .1505 .1307 .3854 .4796 .4542

.150 .2382 .0054 .1696 .3258 .4150

.300 .0467 .0058 .1137 .0058 .0113

.520 .1151 .1409 .1642 .2066 .1941

.685 .3920 .0926 .3075 .2556 .3045

.775 .3569 .0384 .2432 .2380 .1792

.900 .0275 .1050 .1815 .1971 .2460

.1615 .3448

ALPHA ( 5 ) = 11.859 BETA ( 1 ) = -3.851 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .5461 .4544 .3602 .3054 .2953

.025 .3373 .2627 .1871 .1845 .2261

.050 .1179 .2747 .1848 .1786 .2537

.150 .2523 .1673 .1283 .1954 .2960

.300 .0946 .0599 .0785 .3836 .2830

.520 .0318 .0242 .1429 .3949 .3465

.685 .4259 .3071 .6555 .4254 .4279

.775 .3916 .2400 .3213 .3796 .2357

.900 .1567 .2655 .3052 .2965 .1909

.4127

ALPHA ( 5 ) = 11.865 BETA ( 2 ) = .180 MACH = 1.3955

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .6683 .4779 .3749 .3088 .2459

.025 .1650 .0950 .1150 .1358 .1911

.050 .3135 .1749 .1218 .1464 .1530

.150 .2226 .0839 .0100 .0022 .0061

.300 .0891 .0001 .0210 .1587 .1870

.520 .0752 .0244 .2610 .2849 .2627

.685 .1475 .1720 .3512 .3648 .2388

.775 .3631 .1954 .2662 .2849 .2817

.900 .0270 .1419 .2009 .2167 .1510

.3935

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV33)

ALPHA ( 5 ) = 11.860 BETA ( 3 ) = 4.253 MACH = 1.3955 Q = 599.73 P = 439.94 RN/L = 2.9121

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6277	.4665	.3122	.2160	.1724	
.025	.1089	-.1543	-.3544	-.3863	-.4619	-.4389	
.050	.1705	-.1444	-.3863	-.3863	-.4666	-.4358	
.150	.2235	-.0352	-.1992	-.1992	-.3199	-.3893	
.300	.0437	-.0785	-.1496	-.1496	-.0662	-.0983	
.520	-.1461	-.1728	.1067	.1067	.1223	.1241	
.685	-.4134	.0584	-.1794	.2529	.1768	.2449	-.1705
.775	-.3571	.0052	.1081	.1872	.1752	.2326	-.2607
.900	-.0603	.0554	.1280	.1280	.1506	.1344	-.3603

ALPHA ( 6 ) = 15.849 BETA ( 1 ) = -3.830 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7650	.5142	.3317	.2474	.2299	
.025	-.1940	.1329	.1439	.1439	.1392	.1464	
.050	-.0464	.2632	.1439	.1439	.1345	.1643	
.150	.2343	.1135	.0861	.0861	.1184	.2269	
.300	-.0039	-.0129	.0334	.0334	.2100	.2601	
.520	-.0983	-.1153	.3839	.3839	.3673	.3248	
.685	-.4259	.2933	-.1895	.4526	.4058	.4012	-.2471
.775	-.3678	.2535	.3417	.3473	.3560	.3090	-.2622
.900		.1641	.2762	.2934	.2712	.1783	-.4255

ALPHA ( 6 ) = 15.859 BETA ( 2 ) = .186 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9147

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6982	.4970	.3316	.2463	.1889	
.025	.0329	-.0201	-.1450	-.1450	-.1583	-.2105	
.050	.2390	.1528	-.1580	-.1580	-.1710	-.1753	
.150	.2764	.0608	-.0240	-.0240	-.0322	-.0425	
.300	.0757	-.0334	-.0500	-.0500	.0786	.1357	
.520	-.1147	-.1292	.2125	.2125	.2307	.2094	
.685	-.4523	.1434	-.1838	.3125	.2749	.3126	-.2580
.775	-.3993	.0324	.1784	.2293	.2449	.2435	-.2873
.900		.0149	.1221	.1713	.1801	.1279	-.4132

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 6 ) = 15.851 BETA ( 3 ) = 4.283 MACH = 1.3950 Q = 599.93 P = 440.41 RN/L = 2.9.47

(XEBV33)

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

SECTION ( VERTICAL

Z/8V	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.7628	.5247	.2880 .1654 .1278
.1227	-.1584	-.3580 -.4629 -.4376
.2466	-.1233	-.3884 -.4691 -.4376
.2824	.0124	-.2114 -.2855 -.3989
.300	.0731	-.1612 -.0954 -.0789
.320	-.1400	.0771 .0849 .0915
.585	-.4513	.2357 .1434 .2451
.775	-.3770	.1680 .1602 .2107
.900	-.0740	.0969 .1224 .1125
		.3876

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(XEBV34) ( 13 AUG 75 )

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. Z0  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 35.000  
BDFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = 1.250

ALPHA ( 1 ) = -4.041 BETA ( 1 ) = -3.845 MACH = 1.2480 Q = 600.05 P = 550.40 RN/L = 3.0174  
SECTION ( 1 ) VERTICAL  
Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV .000 .765 .6287 .6023 .4195 .5924 .5852  
.025 .5950 .4618 .6443 .5654  
.050 .5935 .4555 .5801 .5651  
.150 .4245 .3642 .5386 .4890  
.300 .3313 .2806 .4415 .5266 .4407  
.520 .1632 .1909 .6373 .5188 .4081  
.655 .3937 .4821 .6236 .5613 .2879  
.775 .2758 .3930 .5187 .5162 .3960 .3079  
.900 .3223 .4116 .3784 .1695 .4225

ALPHA ( 1 ) = -4.041 BETA ( 2 ) = .132 MACH = 1.2480 Q = 600.05 P = 550.40 RN/L = 3.0174  
SECTION ( 1 ) VERTICAL  
Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV .000 .8135 .6919 .6659 .6484 .6764  
.025 .2799 .0835 .0367 .0988 .1769  
.050 .4413 .2971 .0219 .1508 .2670  
.150 .3802 .2177 .1682 .3838 .3824  
.300 .2248 .1469 .1722 .4383 .3841  
.520 .0536 .0613 .5648 .5039 .3900  
.685 .4477 .3606 .5894 .5719 .2832  
.775 .3451 .2784 .4851 .4815 .2832  
.900 .2172 .3757 .3479 .1446 .3910

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV34)

ALPHA ( 1 ) = -.4.051    BETA ( 3 ) = 4.275    MACH = 1.2480    Q = 600.05    P = 550.40    RN/L = 3.0174

SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .7497    .6188    .5727    .5064    .4430  
 .025    .0742    -.1602    -.3474    -.2740    -.0396  
 .050    .1062    -.1550    -.3933    -.2735    -.0171  
 .075    .1594    -.0004    -.1246    -.2061    -.0008  
 .100    .2126    .0245    -.0650    -.0723    -.0521  
 .125    .2658    .0515    .3052    .4458    -.1479  
 .150    .3189    -.1789    .3857    .4832    .5524    -.0634  
 .175    .3719    .3432    .3945    .2992    .4021    -.1838  
 .200    .4249    .1071    .2492    .3180    .2690    .1700    -.3056

ALPHA ( 2 ) = -.032    BETA ( 1 ) = -3.867    MACH = 1.2476    Q = 600.19    P = 550.87    RN/L = 3.0137

SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .6986    .5513    .5206    .5577    .4873  
 .025    .5155    .3894    .3329    .4993    .5104  
 .050    .5242    .3200    .3287    .4960    .4934  
 .075    .4136    .2635    .2611    .4691    .4249  
 .100    .2602    .2046    .2356    .4719    .3819  
 .125    .0907    .0928    .5743    .4870    .3744  
 .150    -.4526    .3928    .5799    .5627    .5133    -.3064  
 .175    -.3221    .3196    .4620    .4750    .4653    -.3401  
 .200    .2821    .3667    .3719    .3348    .1424    -.4514

ALPHA ( 2 ) = -.029    BETA ( 2 ) = .184    MACH = 1.2476    Q = 600.19    P = 550.87    RN/L = 3.0137

SECTION ( 1 ) VERTICAL

Z/BV    .1580    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000    .7594    .6185    .5301    .5375    .5135  
 .025    .2072    .0662    -.0988    -.1157    .0779  
 .050    .3823    .2366    -.0390    -.0879    .1331  
 .075    .3271    .1510    .1008    .2981    .3046  
 .100    .1539    .0862    .0791    .3776    .3202  
 .125    .0024    -.0129    .4804    .4424    .3527  
 .150    .2536    -.1577    .5049    .5012    -.3079  
 .175    .2397    .1927    .3645    .4245    .3406    -.3322  
 .200    .1322    .2823    .3293    .3031    .1180    -.4317



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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV34)

ALPHA ( 2 ) = -.035 BETA ( 3 ) = 4.251 MACH = 1.2476 Q = 600.19 P = 550.87 RN/L = 3.0137

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6817	.5501	.4960	.4221	.3337
.025	-.0249	-.2006	-.3761	-.4005	-.1760
.050	.0210	-.2013	-.4269	-.3917	-.1545
.150	.1376	-.0694	-.1829	-.2998	-.1510
.300	.0930	-.0155	-.1347	-.0879	-.1359
.500	-.0732	-.1133	.2520	.3850	.0472
.685	-.5033	.1887	-.1630	.3767	.4311
.775	-.3800	.1131	.2753	.3254	.3067
.900		.0282	.1845	.2196	.0939

ALPHA ( 3 ) = 3.926 BETA ( 1 ) = -3.871 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION 2 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6241	.4918	.4417	.4596	.4167
.025	.3951	.3087	.2488	.3859	.4365
.050	.4190	.3140	.2540	.3890	.4197
.150	.3211	.2201	.1883	.3878	.3567
.300	.1912	.1324	.1652	.4034	.3205
.500	.0309	.0274	.5137	.4277	.3545
.685	-.5235	.3087	-.1755	.4986	.4656
.775	-.3441	.2339	.3973	.4069	.3270
.900		.1820	.3076	.2890	.1200

ALPHA ( 3 ) = 3.924 BETA ( 2 ) = .180 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION 3 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7117	.5546	.4977	.4435	.3560
.025	.1694	-.0036	-.1285	-.1531	-.0291
.050	.3402	.1971	-.0985	-.1404	-.0113
.150	.2789	.1010	.0409	.1144	.2461
.300	.1107	.0239	.0182	.3252	.2636
.500	-.0500	-.0689	.3957	.3815	.3047
.685	-.5176	.2245	-.1721	.4376	.4411
.775	-.3524	.1339	.2889	.3711	.3222
.900		.0550	.2130	.2573	.0917

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV34)

ALPHA ( 3 ) = 3.934 BETA ( 3 ) = 4.244 MACH = 1.2463 Q = 599.48 P = 551.33 RN/L = 3.0145

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5124	.4959	.4131	.3370	.2248
.025	.0583	.2332	.4118	.5150	.3746
.050	.0296	.2178	.4588	.5103	.3599
.075	.1097	.0973	.2196	.4326	.2891
.100	.0442	.0617	.1707	.0473	.1869
.125	.1458	.1175	.1963	.2608	.2815
.150	.4234	.1179	.3111	.3071	.2610
.175	.3553	.0522	.2653	.2690	.2197
.200	.1029	.1279	.2050	.1795	.0685

ALPHA ( 4 ) = 7.988 BETA ( 1 ) = -3.866 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6460	.5339	.3730	.3470	.3369
.025	.3350	.2667	.1760	.2542	.3612
.050	.3948	.2578	.1802	.2780	.3501
.075	.2710	.1618	.1221	.3165	.2923
.100	.1136	.0544	.0914	.3560	.2616
.125	.0155	.0261	.4507	.3657	.3112
.150	.5191	.2698	.4625	.4082	.3166
.175	.4210	.1992	.3219	.3579	.2841
.200	.1178	.2505	.2771	.2421	.0980

ALPHA ( 4 ) = 7.987 BETA ( 2 ) = .196 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6659	.4970	.4113	.3468	.2407
.025	.1736	.0400	.1771	.1988	.2065
.050	.3244	.1475	.1570	.1886	.1775
.075	.2429	.0480	.1019	.0169	.1703
.100	.0499	.0357	.0401	.2551	.2062
.125	.1107	.1260	.3132	.3168	.2516
.150	.5369	.1688	.1735	.3636	.3265
.175	.7552	.0886	.2215	.3083	.2619
.200	.0094	.1522	.2176	.2077	.0679

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(XEBV34)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 4 ) = 7.988 BETA ( 3 ) = 4.237 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0135

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6401 .4615 .3390 .2492 .1425  
 .025 .0859 .2377 .4400 .5901 .5483  
 .050 .1368 .2179 .4839 .5832 .5344  
 .100 .1670 .0734 .2501 .3700 .3347  
 .150 .0212 .1159 .1832 .0287 .0588  
 .200 .1893 .2195 .1640 .1706 .1142  
 .250 .520 .1893 .0609 .2452 .2535 .2262  
 .300 .685 .4428 .1317 .2091 .2096 .3260  
 .350 .775 .3810 .0767 .1470 .1423 .0668 .3957  
 .400 .900

ALPHA ( 5 ) = 11.921 BETA ( 1 ) = -3.850 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6698 .4278 .3130 .2592 .2628  
 .025 .2822 .1901 .1226 .1648 .2993  
 .050 .3523 .2092 .1242 .1759 .2930  
 .100 .2199 .1072 .0695 .2502 .2427  
 .150 .0430 .0043 .0350 .3083 .2092  
 .200 .0769 .0779 .4008 .3144 .2581  
 .250 .595 .5273 .2614 .3783 .3606 .3152  
 .300 .775 .4205 .1776 .2884 .3071 .4098  
 .350 .900 .0902 .2213 .2395 .2030 .0740 .4944

ALPHA ( 5 ) = 11.932 BETA ( 2 ) = .189 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6670 .4457 .3422 .2676 .1870  
 .025 .1566 .0656 .1988 .2236 .2716  
 .050 .3027 .1177 .1898 .2226 .2317  
 .100 .2254 .0126 .0576 .0654 .1035  
 .150 .0222 .0685 .0854 .1899 .1578  
 .200 .1462 .1577 .2525 .2596 .2040  
 .250 .685 .5470 .1778 .3011 .3288 .3377  
 .300 .775 .3975 .1695 .2556 .2227 .4087  
 .350 .900 .0231 .1101 .1637 .0459 .4914

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ALPHA ( 5 ) = 11.924 BETA ( 3 ) = 4.253 MACH = 1.2455 Q = 599.75 P = 552.28 RN/L = 3.0144  
(XEBV34)

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
A/CV							
.000	.6517	.4308		.2742	.1707	.0925	
.025	.0570	-.2410		-.4517	-.5928	-.5617	
.050	.1232	-.2588		-.4895	-.5902	-.5539	
.075	.1556	-.0552		-.2843	-.3375	-.4032	
.100	.0336	-.1197		-.2067	-.0733	-.0028	
.125	-.2145	-.2552		.1156	.1092	.0709	
.150	-.4527	.0340	-.1840	.2348	.1693	.2143	-.2455
.175	-.3936	-.3349	.0819	.1477	.1477	.1803	-.3514
.200		-.1112	.0180	.0534	.1052	.0428	-.4348

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV35) ( 13 AUG 75 )

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REFERENCE DATA

ORF = 2590.000 SQ.FT. AMRP = 1076.6800 IN. XO  
 ORF = 474.6000 IN. YMRP = .0000 IN. YO  
 ORF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.054

BETA ( 1 ) =

-3.846

MACH =

1.1012

Q =

599.90

P =

706.74

RN/L =

3.1771

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6897 .5481 .5389 .5632 .4682  
 .025 .5271 .3544 .3693 .5225 .4944  
 .050 .5210 .3665 .3670 .5036 .4732  
 .075 .3910 .2763 .3466 .4464 .3858  
 .100 .2229 .1947 .3802 .4242 .3294  
 .125 .0547 .1401 .5412 .4152 .2767  
 .150 -.5128 .4075 .5381 .5204 .4494  
 .175 -.1809 .3295 .4253 .4012 .2580  
 .200 .2397 .2944 .2970 .2457 .0069 .5532

ALPHA ( 1 ) = -4.062

BETA ( 2 ) =

.195

MACH =

1.1012

Q =

599.90

P =

706.74

RN/L =

3.1771

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7434 .6152 .6071 .6428 .6219  
 .025 .2503 .0231 .1446 .1161 .1289  
 .050 .3528 .1954 .0073 .2571 .2133  
 .075 .2761 .1200 .0818 .3061 .2917  
 .100 .1197 .0555 .2626 .3476 .2799  
 .125 .0320 .0051 .4649 .3996 .2659  
 .150 -.5001 .3234 .5017 .4811 .4418  
 .175 -.2606 .2455 .3758 .3710 .2345  
 .200 .1551 .2451 .2548 .2174 .0123 .5145

PARAMETRIC DATA  
 RUDDER = 10.000 SPDRK = 35.000  
 BDFLAP = 15.300 L-ELVN = .002  
 R-ELVN = 10.000 MACH = 1.100

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## TABULATED PRESSURE DATA - 0A148 ( AMES '1-073-1 )

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV35)

ALPHA ( 1 ) = -4.062 BETA ( 3 ) = 4.274 MACH = 1.1012 Q = 599.90 P = 706.74 RN/L = 3.1771

## SECTION 1 - INVERTICAL

## DEPENDENT VARIABLE CP

Z/ST 1.590 3.170 4.590 6.020 6.970 8.390 9.250

X/CV

.000	.6695	.5325	.4945	.4340	.4035	
.025	.6355	.5362	.5028	.42130	-.0372	
.050	.6034	.5231	.5185	-.2002	-.0232	
.075	.5718	.5095	-.2109	-.2052	-.0050	
.100	.5416	.4969	-.0785	-.1232	-.0270	
.125	.5126	.4619	.2587	.2866	-.2049	
.150	.4859	.4274	.3387	.4214	.4239	-.1790
.175	.4614	.3864	.3125	.3217	.3004	-.2829
.200	.4384	.3524	.2864	.1612	.0788	-.3597
.225	.4164	.3284	.2644			
.250	.3954	.3064	.2424			

ALPHA ( 2 ) = -.023 BETA ( 1 ) = -3.863 MACH = 1.0993 Q = 599.08 P = 708.12 RN/L = 3.1793

## SECTION 1 - INVERTICAL

## DEPENDENT VARIABLE CP

Z/ST 1.590 3.170 4.590 6.020 6.970 8.390 9.250

X/CV

.000	.5452	.4899	.4542	.4859	.3948	
.025	.4912	.4512	.2584	.4464	.4309	
.050	.4577	.4392	.2556	.4327	.4144	
.075	.4259	.4249	.2538	.3896	.3282	
.100	.3942	.4179	.3017	.3724	.2874	
.125	.3624	.4053	.4913	.3594	.2391	
.150	.3306	.3823	.4832	.3590	-.4480	
.175	.2988	.3593	.3765	.3573	.2275	-.4947
.200	.2670	.3363	.2516	.2095	-.0155	-.5526
.225	.2352	.3133				
.250	.2034	.2903				

ALPHA ( 2 ) = -.020 BETA ( 2 ) = .185 MACH = 1.0993 Q = 599.08 P = 708.12 RN/L = 3.1793

## SECTION 1 - INVERTICAL

## DEPENDENT VARIABLE CP

Z/ST 1.590 3.170 4.590 6.020 6.970 8.390 9.250

X/CV

.000	.6076	.5358	.5253	.5461	.5026	
.025	.5758	.5039	.4944	.0380	.0611	
.050	.5439	.4720	-.0715	.1527	.1637	
.075	.5120	.4401	.0184	.2468	.2357	
.100	.4801	.4082	.1532	.2957	.2308	
.125	.4482	.3763	.4326	.3501	.2246	
.150	.4163	.3444	.4260	.3340	-.4414	
.175	.3844	.3125	.3315	.2062	-.4891	
.200	.3525	.2806	.2168	.1801	-.0401	-.5318
.225	.3206	.2487				
.250	.2887	.2168				

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = -.024 BETA ( 3 ) = 4.249 MACH = 1.0993 Q = 599.08 P = 709.12 RN/L = 3.1793  
 SECTION ( 1 ) VERTICAL (XEBV35)

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6247	.4726		.4172		.3420	.2885
.025	-.0576	-.3551		-.5282		-.3485	-.1275
.050	-.0252	-.3156		-.5658		-.3400	-.1067
.100	-.0804	-.1348		-.2894		-.3310	-.0932
.150	-.0235	-.1312		-.2140		-.2034	-.1502
.200	-.1385	-.2235		-.2295		.3545	-.2740
.250	-.6225	.1009	-.1781	.2992	.3460	.4021	-.1918
.300	-.3461	.0460	.2273	.2713	.2536	.2417	-.3520
.350		.0484	.1393	.1834	.1091	-.0103	-.4241

ALPHA ( 3 ) = 3.952 BETA ( 1 ) = -3.863 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785  
 SECTION ( 1 ) VERTICAL

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6032	.47305		.3726		.3982	.3163
.025	.3455	.2108		.1645		.3639	.3629
.050	.3745	.2269		.1686		.3535	.3442
.100	.2538	.1321		.1095		.3220	.2749
.150	.1130	.0755		.1892		.3180	.2258
.200	-.0544	-.0738		.4297		.3354	.2026
.250	-.6702	.2659	-.1608	.4337	.4162	.3594	-.4547
.300	-.3240	.1933	.3227	.3211	.3144	.2029	-.5072
.350		.1416	.2117	.2084	.1651	-.0324	-.5500

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .189 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785  
 SECTION ( 1 ) VERTICAL

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6763	.4361		.4438		.4154	.4526
.025	.1420	-.1086		-.2399		-.0876	-.0117
.050	.2874	.1021		-.1538		-.0099	.1052
.100	.1277	.0122		-.0396		.1829	.1757
.150	.0225	-.0574		-.0356		.2406	.1780
.200	-.1356	-.1462		.3705		.2960	.1825
.250	-.5674	.1694	-.1614	.3951	.3681	.3449	-.4561
.300	-.3459	.0937	.2617	.2322	.2794	.1712	-.5152
.350		.0846	.1650	.1753	.1418	-.0656	-.5493

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV35)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 3 ) = 3.950 BETA ( 3 ) = 4.243 MACH = 1.0983 Q = 598.70 P = 709.06 RN/L = 3.1785

SECTION 1: VERTICAL

Y	1590	3170	4590	6020	6970	8390	9250
100	.5893	.4243	.3372	.2463	.1722		
125	-.1044	-.3752	-.5560	-.4767	-.2293		
150	-.0423	-.3393	-.6049	-.4705	-.2092		
175	-.0413	-.1742	-.3657	-.4391	-.1969		
200	-.0644	-.1749	-.2743	-.2209	-.2579		
225	-.2634	-.2471	.1838	.3069	-.1009		
250	-.4585	-.0463	-.1612	.2719	.3265		
275	-.3383	-.1735	.2193	.2054	.3327		
300	-.0034	.0953	.1410	.0788	-.4675		

ALPHA ( 1 ) = 5.030 BETA ( 1 ) = -3.862 MACH = 1.0987

SECTION 2: VERTICAL

Y	1590	3170	4590	6020	6970	8390	9250
100	.6091	.3765	.2925	.3145	.2225		
125	.3267	.0934	.0910	.3311	.3306		
150	.3517	.662	.0936	.3244	.3187		
175	.2112	.0025	.0446	.2932	.2450		
200	.1506	-.0323	.1111	.2953	.2005		
225	-.1311	-.1167	.3998	.3060	.915		
250	-.6956	.2207	-.1554	.3827	.3111		
275	-.1413	.0038	.2998	.2922	.1817		
300	.1337	.1337	.2135	.1578	-.1045		

ALPHA ( 2 ) = 5.032 BETA ( 2 ) = .163 MACH = 1.0987

SECTION 3: VERTICAL

Y	1590	3170	4590	6020	6970	8390	9250
100	.3345	.3321	.2334	.2334	.3321		
125	-.2891	-.0721	-.2891	-.2891	-.0721		
150	-.2829	.0359	-.2829	-.2829	.0359		
175	.1169	.1105	.1169	.1169	.1105		
200	.1892	.1209	.1892	.1892	.1209		
225	.2390	.1432	.2390	.2390	.1432		
250	.2964	-.4465	.2964	.2964	-.4465		
275	.2328	-.5323	.2328	.2328	-.5323		
300	.1406	-.5441	.1406	.1406	-.5441		



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XER935)

ALPHA ( 4 ) = 8.037 BETA ( 3 ) = 4.237 MACH = 1.0987 Q = 598.57 P = 708.35 RN/L = 3.1769

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8330	.9250
X/CV							
.000	.5955	.3693	.2577	.1646	.0446		
.025	-.0408	-.3833	-.5844	-.6473	-.4261		
.050	.0256	-.3338	-.6324	-.6497	-.4086		
.150	.0626	-.1987	-.4002	-.4546	-.4060		
.300	-.1279	-.2338	-.2974	.0015	-.2640		
.520	-.3129	-.3328	.1223	.1426	.0945		
.685	-.5045	-.0057	.2290	.2051	.1911		
.775	-.3785	-.0820	.0898	.1561	.0966		
.900		-.0643	.0421	.0922	.0484		

ALPHA ( 5 ) = 11.975 BETA ( 1 ) = -3.842 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6418	.3572	.2245	.2245	.1189		
.025	.1800	.0949	.0545	.2979	.3097		
.050	.2805	.1210	.0500	.2880	.2903		
.150	.1428	.0182	.0006	.2676	.2146		
.300	-.0462	-.0723	.0470	.2740	.1689		
.520	-.1533	-.1327	.3631	.2671	.1757		
.685	-.6593	.2046	-.1737	.3500	.2972		
.775	-.3980	.1331	.3136	.2552	.1589		
.900		.1743	.2226	.1855	.1298		

ALPHA ( 5 ) = 11.986 BETA ( 2 ) = .188 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6303	.3908	.2852	.2094	.2066		
.025	.0943	-.1823	-.3203	-.3442	-.1116		
.050	.2375	.0135	-.2621	-.3350	-.0054		
.150	.1315	-.0826	-.1582	.0589	.0625		
.300	-.0765	-.1674	-.1802	.1559	.0881		
.520	-.2564	-.2557	.2359	.2049	.1061		
.685	-.5918	.0630	-.1522	.2703	.2585		
.775	-.4325	-.0104	.1602	.2111	.1230		
.900		.0131	.1017	.0899	-.0919		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.981 BETA ( 3 ) = 4.246 MACH = 1.0987 Q = 598.75 P = 708.59 RN/L = 3.1753

(XEBV35)

SECTION ( 1 ) VERTICAL

Z/BV	X/BV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.6286	.3547	.1959
.0069	.3995	.6056
.0896	.3470	.6380
.150	.2135	.4344
.300	.2670	.3235
.520	.3434	.0753
.685	.0479	.1506
.775	.1222	.0276
.900	.1163	.0004
		.1443
		.1091
		.1051
		.0273
		.0979
		.0529
		.5937
		.7135
		.5689
		.3828
		.5556
		.1754
		.0369
		.1034
		.2110
		.3246
		.4204
		.4582

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.063 BETA ( 1 ) = -3.844 MACH = .90163

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4914 .3524 .3642 .3489 .2169  
.025 .3618 .2382 .3607 .4304 .3836  
.050 .3442 .2406 .3357 .4045 .3502  
.150 .2078 .1465 .2874 .3178 .2338  
.300 .0736 .0677 .2837 .2709 .1514  
.520 -.1285 .1618 .4008 .2427 .0561  
.695 -.2306 .3278 -.2016 .3553 .2492 .3311  
.775 -.2219 .2191 .2825 .2457 .0285 .3402  
.900 .0849 .0740 .0740 .0740 .0740 .3141

ALPHA ( 1 ) = -4.055 BETA ( 2 ) = .194 MACH = .90163

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5598 .4532 .5263 .5470 .4945  
.025 .0383 .2597 .1629 .1381 .0856  
.050 .1615 .0029 .0797 .1798 .1421  
.150 .0546 .0520 .0971 .1887 .1412  
.300 .0890 .0827 .1777 .2017 .1091  
.520 .2448 .0969 .3574 .2269 .0724  
.695 .2620 .2692 .3578 .2631 .3285  
.775 .2073 .1733 .2357 .2163 .1897 .3459  
.900 .0354 .0434 .0434 .0434 .0434 .3280

PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 35.000  
BOFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = .500

P = 601.33

1056.6

RN/L = 3.5806

P

1056.6

RN/L = 3.5806

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL  
(XEBV36)

ALPHA ( 1 ) = -4.060 BETA ( 3 ) = 4.272 MACH = .90163 Q = 601.33 P = 1056.6 RN/L = 3.5806

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.4720	.3406	.3553	.4248	.3345
.025	-.1891	-.6724	-.4928	-.1391	-.3133
.050	-.1223	-.6031	-.4891	-.1337	-.2892
.100	-.1520	-.3187	-.4433	-.0896	-.1024
.150	-.2471	-.3263	-.1957	-.0557	-.0576
.200	-.3397	.0217	.2450	-.0178	-.0849
.250	-.3237	.2107	.3293	.1314	-.0127
.300	-.1853	.1117	.2184	.1352	-.0793
.350	-.0201	.0280	.0485	-.0050	-.1745
.400					-.3154

ALPHA ( 2 ) = .042 BETA ( 1 ) = -3.866 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.4317	.2741	.2795	-.2484	.1103
.025	.2904	.1755	.3252	.4003	.3489
.050	.2774	.1765	.3023	.3716	.3141
.100	.1399	.0363	.2526	.2891	.1967
.150	.0178	.0265	.2571	.2408	.1178
.200	-.1673	.1487	.3592	.1949	.0203
.250	-.2347	.3111	.3539	.3174	-.2037
.300	-.2218	.2111	.2580	.1826	-.3023
.350		.0348	.0874	.0005	-.3065
.400				-.0100	-.3006

ALPHA ( 2 ) = .092 BETA ( 2 ) = .183 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.5104	.3559	.4566	.4748	.4217
.025	-.0180	-.3000	-.1472	.1263	.0812
.050	.0972	.0686	.0658	.1598	.1254
.100	-.0140	-.1114	.0838	.1563	.1122
.150	-.1423	-.1225	.1579	.1709	.0777
.200	-.2716	.0862	.3228	.1882	.0456
.250	-.2432	.2643	.3206	.2852	.2230
.300	-.775	.2140	.1870	.1549	-.3013
.350	-.1351	.0285	.0158	-.0035	-.3164
.400				-.0378	-.3032

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .085 BETA ( 3 ) = 4.248 MACH = .90027 Q = 600.16 P = 1057.8 RN/L = 3.5774  
 (XEBV36)

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .4177 .2615 .2718 .3430 .2669  
 .025 .2823 .7403 .5436 .1548 .2868  
 .050 .2019 .6300 .5275 .1473 .2655  
 .150 .1948 .3692 .4786 .1173 .1374  
 .300 .3078 .4021 .2205 .0809 .0647  
 .520 .4642 .0265 .2604 .0395 .1089  
 .685 .2635 .1932 .3086 .1317 .0287 .2537  
 .775 .2193 .1043 .1641 .1723 .0864 .2676  
 .900 .0033 .0072 .0065 .1708 .2605

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = -3.873 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3752 .2171 .1702 .1400 .0033  
 .025 .2282 .1331 .3026 .3710 .3164  
 .050 .2204 .1348 .2818 .3421 .2814  
 .150 .0919 .0603 .2334 .2627 .1730  
 .300 .0203 .0052 .2407 .2133 .0881  
 .520 .1818 .1409 .3388 .1669 .0089  
 .685 .2322 .3074 .3208 .2790 .1749 .3018  
 .775 .2269 .2133 .2396 .1908 .0184 .3144  
 .900 .0922 .0733 .0208 .0352 .2033 .2940

ALPHA ( 3 ) = 3.981 BETA ( 2 ) = .185 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .4794 .3126 .3923 .4102 .3540  
 .025 .0856 .3492 .1117 .1332 .0794  
 .050 .0529 .1125 .0567 .1559 .1095  
 .150 .0615 .1335 .0718 .1379 .0863  
 .300 .1870 .1411 .1372 .1398 .0497  
 .520 .2921 .0966 .2833 .1585 .0197  
 .685 .2456 .2648 .1674 .2459 .1802 .2873  
 .775 .1434 .1895 .1533 .1230 .0349 .3021  
 .900 .0264 .0202 .0128 .0640 .2168 .2766

## DEPENDENT VARIABLE CP

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV36)

ALPHA ( 3 ) = 3.985 BETA ( 3 ) = 4.242 MACH = .89927 Q = 599.24 P = 1058.5 RN/L = 3.5740

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/8V	.000	.3620	.2070	.2091	.2883	.2142	
	.025	-.3007	-.7604	-.4776	-.1675	-.3191	
	.050	-.2079	-.6908	-.4561	-.1646	-.2973	
	.150	-.2088	-.4379	-.4568	-.1334	-.1687	
	.300	-.3700	-.4393	-.2117	-.1044	-.0469	
	.520	-.4989	.0367	.2176	-.0403	-.1148	
	.695	-.2430	.1987	-.1857	.1103	-.0236	-.2512
	.775	-.2281	.1060	.1415	.0982	-.0870	-.2559
	.900		-.0151	-.0195	-.0441	-.1668	-.2538

ALPHA ( 4 ) = 8.050 BETA ( 1 ) = -3.862 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/8V	.000	.3232	.1476	.1100	.0421	-.0900	
	.025	.1833	.1151	.2811	.3342	.2725	
	.050	.1788	.1108	.2528	.3085	.2407	
	.150	.0498	.0245	.2095	.2302	.1353	
	.300	-.0647	-.0242	.2203	.1798	.0586	
	.520	-.2049	.1278	.3224	.1515	-.0355	
	.695	-.2733	.3090	-.1714	.2406	.1398	-.3075
	.775	-.2290	.2210	.2383	.1239	-.0457	-.3127
	.900		.1033	.0710	-.0560	-.2160	-.3051

ALPHA ( 4 ) = 9.054 BETA ( 2 ) = .184 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/8V	.000	.4420	.2515	.3372	.3384	.2692	
	.025	-.1189	-.3522	-.1493	.1226	.0692	
	.050	.0245	-.1537	.0226	.1327	.0845	
	.150	-.0821	-.1837	.0471	.1129	.0560	
	.300	-.2243	-.1738	.1205	.1120	.0150	
	.520	-.3189	.0520	.2693	.1212	-.0240	
	.695	-.2549	.2484	-.1719	.2035	.1356	-.2915
	.775	-.2193	.1554	.1892	.0870	-.0626	-.2983
	.900		.0457	-.0267	-.0871	-.2379	-.2922

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.061 BETA ( 3 ) = 4.239 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5781  
 (XEBV36)

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .3302 .1690 .1180 .2262 .1462  
 .025 -.2945 -.7538 -.5146 -.1793 -.2825  
 .050 -.1788 -.6850 -.4875 -.1711 -.2641  
 .100 .1925 -.4425 -.4536 -.1412 -.1755  
 .150 -.3366 -.4138 -.1732 -.1086 -.0673  
 .200 -.4602 -.0122 .2161 -.0413 -.1439  
 .250 .585 .2548 -.1782 .2347 .1367 -.0404 -.2490  
 .300 .775 -.2308 .0744 .1274 .1046 .1081 -.2518  
 .350 .900 -.0287 -.0276 -.0415 -.0667 -.1853 -.2485

ALPHA ( 5 ) = 11.931 BETA ( 1 ) = -3.854 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .3495 .1262 .0587 -.0488 -.1985  
 .025 -.0452 -.0229 .2345 .2932 .2237  
 .050 .0566 .0009 .2065 .2682 .2013  
 .100 .1048 -.0533 .1906 .2030 .0967  
 .150 .1712 -.0771 .1934 .1565 .0232  
 .200 .2731 .1328 .2953 .1200 .0630  
 .250 .595 .3132 .3033 -.2042 .2117 .1108 .3354  
 .300 .775 .2547 .2238 .2314 .1495 .1018 -.0585 .3357  
 .350 .900 .1156 .0671 -.0080 .0671 -.0730 -.2395 -.3340

ALPHA ( 5 ) = 11.945 BETA ( 2 ) = .188 MACH = .89977 Q = 600.28 P = 1059.2 RN/L = 3.5829

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .3748 .2310 .2949 .2967 .2259  
 .025 -.0566 -.3431 -.1831 .0956 .0487  
 .050 .0296 -.1936 -.0115 .1046 .0622  
 .100 .0913 -.2229 .0288 .0933 .0343  
 .150 .2472 .2229 .0992 .0921 .0053  
 .200 .3355 .0307 .2516 .1011 .0412  
 .250 .695 .2630 .2100 -.2061 .2403 .1896 .1201 .2988  
 .300 .775 .2321 .1575 .1620 .1091 .0749 .0721 .2936  
 .350 .900 .0222 .0071 -.0391 -.0962 -.2483 -.2903

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 5 ) = 11.935 BETA ( 3 ) = 4.259 MACH = .89977 Q = 600.28 P = 1059.2 RV/L = 3.5829

SECTION ( 1 ) VERTICAL

(XEBV36)

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3536	.1475		.0528		.1339	.0643
.025	.1186	.6093		.6527		.2387	.2637
.050	.0552	.4743		.6183		.2402	.2338
.150	.1492	.3912		.4834		.2201	.2114
.300	.3266	.4250		.0772		.1630	.1416
.450	.4304	.0568		.1722		.0434	.1939
.600	.2810	.0956	.2152	.1851	.1578	.0151	.2597
.750	.2274	.0331	.0680	.0634	.0667	.0893	.2578
.900		.0620	.0786	.0783	.1041	.1925	.2349



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XE8V37) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
SREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPDRKX = 35.000  
BDFLAP = 16.300 L-ELVN = .000  
R-ELVN = 10.000 MACH = .600

ALPHA ( 1 ) = -4.041 BETA ( 1 ) = -7.848 MACH = .59694 0 = 595.14 P = 2385.8 RN/L = 4.8726

SECTION ( 1 ) VERTICAL

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.00508	.03537	.0780	.13785	.21015	
.025	.4954	.4478	.5355	.5103	.4357		
.050	.4357	.4059	.4949	.4859	.4064		
.150	.2908	.2772	.3886	.3735	.2698		
.300	.1521	.1756	.3420	.2825	.1558		
.450	.0968	.2240	.3567	.2204	.0067		
.600	.0460	.3045	.3324	.3104	.0067		
.750	.0237	.2035	.1949	.1804	.0490		
.900	.0065	.0008	.0008	.0100	.0757		

ALPHA ( 2 ) = -4.025 BETA ( 2 ) = -3.846 MACH = .59694 0 = 595.14 P = 2385.8 RN/L = 4.8726

SECTION ( 2 ) VERTICAL

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.0312	.1703	.0925	.1592	.0061	
.025	.3270	.2814	.4053	.4243	.3753		
.050	.2967	.2601	.3551	.3862	.3377		
.150	.1745	.1532	.2779	.2812	.2050		
.300	.0566	.0776	.2531	.2178	.1177		
.450	.0104	.1561	.3115	.1914	.0021		
.600	.0029	.2556	.2948	.2823	.2042		
.750	.0048	.1528	.1438	.1441	.0227		
.900	.0021	.0321	.0027	.0464	.0801		

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## TABULATED PRESSURE DATA - 00148 ( AMES 11-073-1 )

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AMES 11-073(00148) -140A/B/C/R ORB VERTICAL

(XEBV37)

ALPHA ( 1 ) = -3.895 BETA ( 3 ) = .184 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.6726

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/CV							
.000	.4909	.4485		.4853		.4877	.4280
.025	.0261	-.1995		.0009		.1594	.0825
.050	.1129	.0250		.1139		.1683	.1342
.075	.0417	-.0097		.1158		.1408	.1027
.100	.0530	-.0414		.1424		.1396	.0668
.125	-.0326	.0974		.2658		.1707	.0090
.150	-.2458	.2117		.1730	.2456	.1954	-.2547
.175	-.2034	.1017		.1193	.0982	.0114	-.2580
.200		-.1532		-.0964	-.0627	-.0818	-.2566

ALPHA ( 4 ) = -3.930 BETA ( 4 ) = 4.266 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.6726

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/CV							
.000	.3587	.2534		.3476		.3447	.3648
.025	-.2443	-.5812		-.4182		-.2990	-.6260
.050	-.0253	-.4270		-.3371		-.2299	-.3490
.075	.1535	-.2747		-.1523		-.0876	-.0598
.100	.1123	-.1861		-.0150		.0285	-.0233
.125	-.0266	.0188		.1534		.1131	-.0189
.150	-.2609	.1394		.1591	.1742	.1453	-.2461
.175	-.2167	.0399		.0670	.0521	-.0104	-.2414
.200		-.1361		-.1394	-.1194	-.1070	-.2411

ALPHA ( 5 ) = -3.945 BETA ( 5 ) = 8.339 MACH = .59694 Q = 595.14 P = 2385.8 RN/L = 4.6726

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/CV							
.000	.10106	-.3417		-.0951		-.0083	-.0480
.025	.5220	-.6581		-.6132		-.3534	-.8372
.050	.5168	.7339		-.5941		-.3390	-.6200
.075	.1644	-.7694		-.5281		-.3032	-.5192
.100	.4258	.4051		-.4298		-.2365	-.2121
.125	.3314	.1109		-.1835		-.1558	-.1347
.150	.2245	.0544		-.0974	-.0394	-.1565	-.2626
.175	.2373	-.0446		.0367	-.0762	-.1814	-.2584
.200		-.1971		-.1626	-.1691	-.2107	-.2521

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .030 BETA ( 1 ) = -7.898 MACH = .59632 Q = 594.31 P = 2385.8 RN/L = 4.8794  
(X86V37)

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1112	-.4081		-.5762		-.4535	-.4630
.025	.4478	.4046		.4812		.4554	.3712
.050	.3934	.3518		.4538		.4415	.3540
.100	.2451	.2397		.3586		.3388	.2259
.150	.1224	.1435		.3121		.2538	.1170
.200	-.1193	.2037		.3272		.1884	-.0226
.250	-.2487	.2956	-.1686	.3017	.2814	.1832	-.2422
.300	-.2315	.2611	-.2003	.1703	.1504	.0337	-.2587
.350		.0099	-.0180	-.0129	-.0325	-.0913	-.2893

ALPHA ( 2 ) = .040

BETA ( 2 ) = -3.863

MACH = .59652

Q = 594.31

P = 2385.8

RN/L = 4.8794

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2773	.0995		.0162		-.0604	-.0932
.025	.2870	.2444		.3707		.3872	.3366
.050	.2571	.2197		.3244		.3511	.2984
.100	.1354	.1237		.2447		.2501	.1732
.150	.0249	.0512		.2338		.1944	.0850
.200	-.1304	.1524		.2817		.1628	-.0068
.250	-.2489	.2472	-.1629	.2647	.2487	.1726	-.2415
.300	-.2481	.1496	.1523	.1210	.1177	.0144	-.2434
.350		-.0315	-.0590	-.0520	-.0569	-.0894	-.2582

ALPHA ( 2 ) = .104

BETA ( 3 ) = .181

MACH = .59652

Q = 594.31

P = 2385.8

RN/L = 4.8794

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4459	.3935		.4290		.4203	.3653
.025	.4091	.2151		-.0107		.1406	.0763
.050	.3755	.0105		.0851		.1467	.1114
.100	.2103	.0443		.0355		.1132	.0803
.150	-.0893	.0223		.1231		.1162	.0408
.200	-.2489	.0301	.2383	.2383		.1554	-.0126
.250	-.2481	.0994	.2163	.2881	.2163	.1671	-.2289
.300	-.2481	.0099	.0792	.0832	.0792	-.0060	-.2421
.350		-.0335	-.0324	-.0924	-.0926	-.1004	-.2414

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV37)

ALPHA ( 2 ) = .102 BETA ( 4 ) = 4.244 MACH = .59652 Q = 594.31 P = 2385.8 RN/L = 4.8794

SECTION 1 VERTICAL

Z' B' .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3058 .1872 .2871 .2829 .2996  
 .025 .3139 .6682 .4127 .2996 .5788  
 .050 .2757 .4779 .3407 .2557 .3841  
 .100 .2143 .3119 .1951 .1250 .0885  
 .150 .2132 .1850 .1054 .0055 .0351  
 .200 .2996 .0103 .1355 .0929 .0313  
 .250 .2536 .1729 .1394 .1432 .1208 .2234  
 .300 .2430 .0452 .0460 .0301 .0172 .2330  
 .350 .1362 .1127 .1264 .1065 .1065 .2311

ALPHA ( 2 ) = .019 BETA ( 5 ) = 8.303 MACH = .59652

SECTION 1 VERTICAL

Z' B' .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3053 .14285 .1892 .0428 .0904  
 .025 .3809 .9037 .6617 .3332 .5760  
 .050 .5102 .7327 .6615 .3131 .4857  
 .100 .6970 .8722 .6204 .2793 .4857  
 .150 .3631 .3418 .5373 .2347 .1935  
 .200 .3698 .1059 .1563 .1996 .1434  
 .250 .2693 .0274 .1634 .2018 .1914  
 .300 .2419 .0164 .0091 .0395 .2176 .1848  
 .350 .1646 .1856 .0936 .1559 .1916 .1803

ALPHA ( 3 ) = 4.036 BETA ( 1 ) = -7.909 MACH = .59620

SECTION 1 VERTICAL

Z' B' .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .1490 .4978 .6709 .5465 .5341  
 .025 .4096 .3660 .4309 .4042 .3130  
 .050 .3634 .3226 .4108 .3943 .3052  
 .100 .2120 .2131 .3268 .3022 .1910  
 .150 .0974 .1310 .2862 .2225 .0852  
 .200 .1243 .1594 .3022 .1618 .0438  
 .250 .2476 .2924 .2767 .2470 .2407  
 .300 .2339 .2326 .1858 .1236 .0059 .2388  
 .350 .0155 .0155 .0202 .0468 .0940 .2685

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV37)

ALPHA ( 3 ) = 4.041 BETA ( 2 ) = -3.867 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2233	.0428	-.0437	-.0289	-.2085	
.025	.2482	.2131	.3359	.3413	.2942	
.050	.2140	.1855	.2910	.3146	.2607	
.075	.0977	.0931	.2178	.2156	.1401	
.100	-.0033	.0321	.2017	.1682	.0592	
.125	-.1935	.1391	.2579	.1415	-.0341	
.150	-.2505	.2378	-.1527	.2222	.1472	-.2406
.175	-.2153	.1472	.1368	.0989	.0008	-.2351
.200		-.0294	-.0647	-.0638	-.0935	-.2545

ALPHA ( 3 ) = 4.040 BETA ( 3 ) = .186 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4143	.3474	.3767	.3607	.3035	
.025	-.0474	-.2332	-.0139	.1155	.0572	
.050	.0351	-.0359	.0629	.1181	.0859	
.075	-.0377	.0650	.0721	.0943	.0506	
.100	-.1123	-.0791	.1042	.0900	.0141	
.125	-.2234	.0727	.2128	.1306	-.0384	
.150	-.2427	.1918	.2015	.1890	.1316	-.2437
.175	-.1353	.0350	.0878	.0512	-.0215	-.2475
.200		-.0781	-.1079	-.1046	-.1130	-.2524

ALPHA ( 3 ) = 4.044 BETA ( 4 ) = 4.237 MACH = .59620 Q = 593.73 P = 2386.0 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2609	.1311	.2251	.2213	.2268	
.025	-.3312	-.5567	-.4054	-.2891	-.5248	
.050	-.2264	-.4243	-.3467	-.2609	-.3708	
.075	-.1242	-.3237	-.2308	-.1466	-.1072	
.100	-.2253	-.1900	-.0529	.0028	-.0312	
.125	-.2376	.0114	.1232	.0804	-.0237	
.150	-.2239	.1371	.1188	.1118	-.1120	-.1678
.175	-.2033	.0236	.0078	.0078	-.0140	-.1796
.200		-.1270	-.1239	-.1319	-.0953	-.1841



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV37)

ALPHA ( 4 ) = 7.990 BETA ( 3 ) = .171 MACH = .5966 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3878	.3007	.3191	.2920	.2352
.025	-.0453	-.2284	-.0110	.1042	.0570
.050	.0231	-.0464	.0457	.1091	.0746
.150	-.0507	-.0870	.0589	.0780	.0339
.300	-.1327	-.0929	.0917	.0709	-.0049
.520	-.2666	.0711	.1941	.0955	-.0683
.685	-.2460	.1879	-.1405	.1587	.1082
.775	-.1867	.0986	.0811	.0466	-.0333
.900		-.0690	-.1149	-.1178	-.1212

ALPHA ( 4 ) = 7.990 BETA ( 4 ) = 4.234 MACH = .5966 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2667	.0969	.1719	.1667	.1753
.025	-.3470	-.6744	-.4031	-.2910	-.5012
.050	-.3093	-.4965	-.3613	-.2769	-.3556
.150	-.2368	-.3180	-.2554	-.1879	-.1154
.300	-.2510	-.2014	-.0523	-.0122	-.0435
.520	-.3237	.0309	.1148	.0551	-.0592
.685	-.2180	.1322	.1233	.0789	.0827
.775	-.1948	.0452	.0239	-.0053	-.2034
.900		-.1249	-.1708	-.1367	-.1103

ALPHA ( 4 ) = 7.988 BETA ( 5 ) = 8.288 MACH = .5966 Q = 594.55 P = 2385.8 RN/L = 4.8889

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1454	-.5475	-.3386	-.1852	-.1815
.025	-.6501	-.9442	-.6971	-.3487	-.3044
.050	-.6592	-.8677	-.7072	-.3439	-.2740
.150	-.7814	-.9618	-.6985	-.3410	-.2589
.300	-.3724	-.3555	-.6445	-.3301	-.2323
.520	-.3498	-.1345	-.0790	-.2711	-.2653
.685	-.2378	.0195	.0926	-.2362	-.2797
.775	-.2439	.0269	.0782	-.1064	-.2479
.900		-.1768	-.2293	-.0669	-.1989

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V37)

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -7.860 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2158	-.6741	-.8579	-.7645	-.7679	
.025	.2891	.3104	.3478	.3077	.1893	
.050	.2423	.2833	.3452	.3209	.2161	
.150	.1028	.1795	.2872	.2444	.1307	
.300	.0264	.1146	.2527	.1835	.0347	
.520	-.1395	.2103	.2676	.1113	-.1051	
.685	-.2414	.3132	.2421	.1916	.0997	.3139
.775	-.2407	.2338	.1792	.1007	-.0341	-.3005
.900		.0561	-.0103	-.0495	-.1254	-.2996

ALPHA ( 5 ) = 11.981 BETA ( 2 ) = -3.846 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2141	-.0647	-.1833	-.2324	-.3825	
.025	.1982	.1770	.2875	.2806	.2090	
.050	.1628	.1495	.2511	.2586	.1900	
.150	.0473	.0653	.1892	.1747	.0861	
.300	-.0576	.0072	.1821	.1211	.0064	
.520	-.2323	.1295	.2239	.0911	-.0953	
.685	-.2691	.2514	.2040	.1669	.0935	.2662
.775	-.2205	.1753	.1307	.0646	-.0389	-.2650
.900		.0362	-.0645	-.0774	-.1279	-.2690

ALPHA ( 5 ) = 11.991 BETA ( 3 ) = .172 MACH = .59676 Q = 594.79 P = 2385.8 RN/L = 4.8888

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3713	.2675	.2719	.2405	.1754	
.025	-.0480	-.2037	-.0012	.0980	.0499	
.050	.0182	-.0805	.0432	.0975	.0600	
.150	-.0670	-.0329	.0522	.0652	.0136	
.300	-.1429	-.0969	.0803	.0569	-.0236	
.520	-.2684	.0770	.1762	.0805	-.0634	
.685	-.2368	.1947	.1401	.0901	-.2188	
.775	-.1918	.1050	.0745	.0229	-.0365	.2343
.900		-.0613	-.1180	-.1255	-.2414	



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ALPHA ( 5 ) = 11.985 BETA ( 4 ) = 4.243 MACH = .59676 Q = 594.79 P = 2395.8 RN/L = 4.8888

(XE8V37,

SECTION 1 11VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2855	.0733				.1148	.1003
.025	.3347	.6775		.1214		.2982	.4880
.050	.3054	.5251		.4206		.2831	.3446
.150	.2427	.3060		.2827		.2206	.1149
.300	.2629	.2153		.0518		.0220	.0500
.500	.3239	.0355		.1058		.0417	.0750
.685	.2137	.1242	.1481	.1131	.0558	.0698	.2035
.775	.1999	.0409	.0137	.0015	.0192	.0387	.2010
.900		.1197	.1766	.1428	.1343	.1128	.2031

ALPHA ( 5 ) = 11.975 BETA ( 5 ) = 8.313 MACH = .59676 Q = 594.79 P = 2395.8 RN/L = 4.8888

SECTION 1 11VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.1705	.5951				.2739	.2500
.025	.6960	.9766		.4382		.3831	.2850
.050	.7334	.9226		.7322		.3753	.2535
.150	.4953	.9678		.7480		.3854	.2444
.300	.4769	.3585		.7537		.3689	.2533
.500	.4552	.1474		.7051		.2972	.3111
.685	.3420	.0304	.1675	.0285		.3265	.2621
.775	.2984	.0858	.0664	.1177	.2103	.2654	.2300
.900		.2191	.2261	.0533	.0426	.2152	.2305

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV38) ( 13 AUG 75 )

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

## REFERENCE DATA

SREF = 4590.000 SQ.FT. XMRP = 1078.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 SREF = 935.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.002 BETA ( 1 ) = -3.853 MACH = 1.3931 Q = 600.20 P = 441.83 RN/L = 2.9112

## PARAMETRIC DATA

RUDDER = 10.000 SPOBRK = 85.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = 1.400

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7815	.5668	.6962	.5413	.4429	.8688	.8129
.000	.6076	.5160	.7054	.8561	.7976	.8233	.7356
.025	.6253	.5177	.7220	.8233	.7356	.8133	.6899
.050	.6252	.4212	.7926	.8133	.6899	.7999	.4565
.075	.3555	.3324	.8953	.9841	.7586	.6839	.4812
.100	.2208	.9712	.9841	.9057	.7586	.6839	.4812
.125	.2292	1.2134	.9661	.9222	.8684	.6936	.5347
.150	.1043	1.0685	1.0105	.9222	.8684	.6936	.5347
.175	.1043	.9078	.8397	.7621	.6936	.5060	.5347

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.8300	.7387	.7035	.7778	.7358	.7776	.7419
.000	.3659	.1471	.1212	.7776	.7358	.7776	.7419
.025	.4604	.3457	.2217	.7750	.7322	.7750	.7322
.050	.4294	.2775	.7066	.7709	.6949	.7709	.6949
.075	.2501	.2113	.8547	.7856	.6677	.7856	.6677
.100	.1258	.2235	.7849	.7253	.3813	.7253	.3813
.125	.1258	.11573	.7915	.7655	.6831	.6831	.6831
.150	.1258	1.0459	.8640	.7991	.6274	.6274	.4566
.175	.1258	.8653	.7632	.6917	.4770	.4770	.5173

ALPHA ( 1 ) = -3.942 BETA ( 2 ) = .193 MACH = 1.3931 Q = 600.20 P = 441.83 RN/L = 2.9112

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.950  
 BETA ( 3 ) = 4.276 MACH = 1.3931 Q = 500.20 P = 441.83 RN/L = 2.9112  
 AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL (XE8V38)

(XEBV39)

## SECTION ( ) VERTICAL

	SECTION (1) VERTICAL	DEPENDENT VARIABLE CP
278V	.1580	.6020
	.3170	.8390
		.9250

XX/3

000	7631	6641	6423	8105	7322
025	0938	- 0719	2098	5957	5166
050	1061	- 0781	2285	6078	5556
150	2067	0348	3296	6257	5702
320	2144	0871	4310	6307	5487
500	0490	5870	6288	5192	2729
695	- 3362	8657	6248	4476	- 3543
775	- 1884	9450	7191	3685	- 4794
900		8210	7730	2967	- 5274
			8205	5151	6000
			9674	5693	
			1472		

ALPHA ( 2 ) = .030      BETA ( 1 ) = -3.859      MACH = 1.3931      Q = 599.59      P = 441.36      RW/L = 2.9073

SECTION 1 INVERTION:

SECTION: 11 VERTICAL

2/9V	.1580	.3170	.4590	.6020	.6970	.8390	.9250

xx/cv

900	7134	5899	5733	4774	3334
025	5213	4469	4937	7963	7450
050	5436	4460	5608	7866	7306
150	4055	3447	7181	7601	6738
300	3396	2608	8395	7636	6354
520	1519	8120	9136	7354	3985
685	3514	11829	8861	8428	3150
755	1772	10273	9679	7074	5006
900		8749	7198	6401	5503
			7977	6462	

ALPHA ( 2 ) = .036      BETA ( 2 ) = .183      MACH = 1.3931      Q = 599.59      P = 441.36      RM/L = 2.9073

SECTION : 1) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
------	-------	-------	-------	-------	-------	-------	-------

431

.000	.7553	.6680	.6194	.6745	.6126
.025	.2022	.0947	.0356	.7098	.6908
.050	.3352	.2932	.0434	.7100	.6769
.150	.3706	.2161	.6367	.7218	.6398
.300	.2248	.1498	.7765	.6991	.6025
.500	.0712	.5173	.6598	.6289	.2863
.685	-.3900	1.1148	.7005	.5714	-.3158
.775	-.2333	.9936	1.0047	.5387	-.4799
.900		.8228	.7500	.4240	-.5226

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TABULATED PRESSURE DATA - 0A148 (AWES 11-073-1)

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AWES 11-07310A148) -140A/S/C/R ORB VERTICAL

(XEBV38)

ALPHA ( 2 ) = .034 BETA ( 3 ) = 4.255 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9073

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6895	.5941	.5479	.7331	.6731
.025	-.0324	-.1352	.0746	.5602	.4933
.050	.0403	-.1378	.1067	.5810	.5334
.100	.1407	-.0217	.2083	.5931	.5563
.150	.1520	.0499	.3040	.5857	.5138
.200	-.0021	.4691	.5724	.4302	.2207
.250	-.4199	.9249	.6150	.4562	.3657
.300	-.2355	.9095	.9348	.5547	.3910
.350		.7722	.7818	.2394	.5284
.400			.6320	.1940	.5539

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = -3.872 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6215	.5225	.4914	.3960	.2489
.025	.3743	.3667	.3249	.7158	.6650
.050	.4187	.3681	.3653	.7094	.6601
.100	.2467	.2724	.6832	.6898	.6013
.150	.2380	.1908	.7739	.6941	.5706
.200	.0949	.6200	.8176	.6593	.3361
.250	-.4080	1.1243	.7921	.6331	.3192
.300	-.2142	.9742	.7954	.7286	.5117
.350		.8323	.7515	.5883	.4166
.400				.5405	

ALPHA ( 3 ) = 3.595 BETA ( 2 ) = .183 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5682	.6314	.5353	.5864	.4891
.025	.1622	.0586	-.0355	.6508	.6248
.050	.3295	.2591	-.0169	.6512	.6104
.100	.3250	.1702	.5455	.6600	.5781
.150	.1743	.0551	.6995	.6257	.5212
.200	.0208	.4369	.5713	.5415	.2046
.250	-.4122	1.0428	.6541	.4531	.3737
.300	-.2283	.9277	.9305	.7016	.5022
.350		.7783	.7357	.6373	.3951
.400				.5194	

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ALPHA ( 3 ) = 3.906 BETA ( 3 ) = 4.246 MACH = 1.3932 Q = 599.70 P = 441.36 RN/L = 2.9108  
(XEBV38)

SECTION 1 ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CO	.5883	.5378	.4591	.6292	.5960				
.000	.5883	.5378	.4591	.6292	.5960				
.025	.5883	.5378	.4591	.6292	.5960				
.050	.5883	.5378	.4591	.6292	.5960				
.100	.5883	.5378	.4591	.6292	.5960				
.150	.5883	.5378	.4591	.6292	.5960				
.200	.5883	.5378	.4591	.6292	.5960				
.250	.5883	.5378	.4591	.6292	.5960				
.300	.5883	.5378	.4591	.6292	.5960				
.350	.5883	.5378	.4591	.6292	.5960				
.400	.5883	.5378	.4591	.6292	.5960				
.450	.5883	.5378	.4591	.6292	.5960				
.500	.5883	.5378	.4591	.6292	.5960				
.550	.5883	.5378	.4591	.6292	.5960				
.600	.5883	.5378	.4591	.6292	.5960				
.650	.5883	.5378	.4591	.6292	.5960				
.700	.5883	.5378	.4591	.6292	.5960				
.750	.5883	.5378	.4591	.6292	.5960				
.800	.5883	.5378	.4591	.6292	.5960				
.850	.5883	.5378	.4591	.6292	.5960				
.900	.5883	.5378	.4591	.6292	.5960				

ALPHA ( 4 ) = 7.922 BETA ( 1 ) = -3.861 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION 1 ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CO	.5883	.5378	.4591	.6292	.5960				
.000	.5883	.5378	.4591	.6292	.5960				
.025	.5883	.5378	.4591	.6292	.5960				
.050	.5883	.5378	.4591	.6292	.5960				
.100	.5883	.5378	.4591	.6292	.5960				
.150	.5883	.5378	.4591	.6292	.5960				
.200	.5883	.5378	.4591	.6292	.5960				
.250	.5883	.5378	.4591	.6292	.5960				
.300	.5883	.5378	.4591	.6292	.5960				
.350	.5883	.5378	.4591	.6292	.5960				
.400	.5883	.5378	.4591	.6292	.5960				
.450	.5883	.5378	.4591	.6292	.5960				
.500	.5883	.5378	.4591	.6292	.5960				
.550	.5883	.5378	.4591	.6292	.5960				
.600	.5883	.5378	.4591	.6292	.5960				
.650	.5883	.5378	.4591	.6292	.5960				
.700	.5883	.5378	.4591	.6292	.5960				
.750	.5883	.5378	.4591	.6292	.5960				
.800	.5883	.5378	.4591	.6292	.5960				
.850	.5883	.5378	.4591	.6292	.5960				
.900	.5883	.5378	.4591	.6292	.5960				

ALPHA ( 4 ) = 7.892 BETA ( 2 ) = .182 MACH = 1.3932 Q = 599.39 P = 441.12 RN/L = 2.9102

SECTION 1 ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CO	.5883	.5378	.4591	.6292	.5960				
.000	.5883	.5378	.4591	.6292	.5960				
.025	.5883	.5378	.4591	.6292	.5960				
.050	.5883	.5378	.4591	.6292	.5960				
.100	.5883	.5378	.4591	.6292	.5960				
.150	.5883	.5378	.4591	.6292	.5960				
.200	.5883	.5378	.4591	.6292	.5960				
.250	.5883	.5378	.4591	.6292	.5960				
.300	.5883	.5378	.4591	.6292	.5960				
.350	.5883	.5378	.4591	.6292	.5960				
.400	.5883	.5378	.4591	.6292	.5960				
.450	.5883	.5378	.4591	.6292	.5960				
.500	.5883	.5378	.4591	.6292	.5960				
.550	.5883	.5378	.4591	.6292	.5960				
.600	.5883	.5378	.4591	.6292	.5960				
.650	.5883	.5378	.4591	.6292	.5960				
.700	.5883	.5378	.4591	.6292	.5960				
.750	.5883	.5378	.4591	.6292	.5960				
.800	.5883	.5378	.4591	.6292	.5960				
.850	.5883	.5378	.4591	.6292	.5960				
.900	.5883	.5378	.4591	.6292	.5960				

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV381)

ALPHA ( 4 ) = 7.830 BETA ( 3 ) = 4.245 MACH = 1.3932 Q = 599.39 P = 441.12 RV/L = 2.9102

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C/

.000	.5600	.5041	.3955	.5160	.5321
.025	.0933	-.1520	-.2400	.4581	.4296
.050	.1494	-.1310	-.2858	.4612	.4388
.100	.2348	-.0030	.0026	.4687	.4520
.150	.0476	-.0560	.2732	.4347	.4454
.200	-.1151	.1819	.4803	.2288	.0930
.250	-.3966	.8391	-.1608	.5423	-.5480
.300	-.3320	.7378	.8301	.6895	-.5577
		.6396	.6547	.5709	-.5598
				.6307	

ALPHA ( 5 ) = 11.870 BETA ( 1 ) = -3.851 MACH = 1.3941 Q = 600.12 P = 441.12 RV/L = 2.9072

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C/

.000	.6495	.4558	.3520	.2249	.0909
.025	.3468	.2647	.1918	.5697	.5140
.050	.1666	.2739	.2095	.5669	.5206
.100	.2605	.1594	.3452	.5622	.4784
.150	.0842	.0635	.6556	.5494	.4362
.200	-.0305	.4143	.6351	.4914	.1995
.250	-.4233	1.0790	-.1640	.5590	-.3732
.300	-.2697	.9339	.8543	.6879	.6018
		.7968	.5774	.4888	.3279
					-.5459

ALPHA ( 5 ) = 11.880 BETA ( 2 ) = .187 MACH = 1.3941 Q = 600.12 P = 441.12 RV/L = 2.9072

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .580 .3170 .4590 .6020 .6970 .8390 .9250

X/C/

.000	.6680	.4797	.3759	.3965	.2684
.025	.1624	.0130	-.1033	.5244	.4902
.050	.3253	.1788	-.1062	.5277	.4857
.100	.2811	.0875	.2400	.4876	.4332
.150	.0896	.0062	.5287	.4750	.3789
.200	-.0732	.2903	.4360	.3313	.0704
.250	-.4472	.9557	-.1654	.4838	-.5041
.300	-.2888	.7757	.7801	.6443	.3590
		.6688	.6128	.5050	-.5492
				.3879	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV38)

ALPHA ( 5 ) = 11.873 BETA ( 3 ) = 4.255 MACH = 1.3941 Q = 600.12 P = 441.12 RV/L = 2.9072

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.000	.6265	.4690	.3131	.4261	.4951	
.025	.1204	-.1144		-.2606	.3887	.3917	
.050	.1849	-.1440		-.2642	.3895	.4137	
.150	.2244	-.0298		-.1186	.3916	.3865	
.300	.0466	-.0783		.2169	.3320	.3860	
.520	-.1452	.1062		.4136	.1992	.0346	
.695	-.4248	.7895	-.1667	.5159	.4935	.3448	-.5603
.775	-.3569	.6655	.7542	.7129	.6436	.3432	-.5643
.900		.5749	.5914	.5566	.5039	.3530	-.5669

ALPHA ( 5 ) = 15.853 BETA ( 1 ) = -3.829 MACH = 1.3929 Q = 599.99 P = 441.82 RV/L = 2.9183

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.000	.7656	.5141	.3257	.1694	.0290	
.025	-.1990	.1238		.1432	.5192	.4527	
.050	-.0411	.2637		.1607	.5185	.4714	
.150	.2394	.1157		.3117	.5122	.4270	
.300	-.0039	-.0129		.6289	.4909	.3793	
.520	-.1018	.2770	.5805	.5805	.4415	.1508	
.695	-.4243	1.0495	-.1718	.5743	.5122	.4133	-.3988
.775	-.2281	1.0159	.8596	.6490	.5587	.3804	-.5309
.900		.8383	.6945	.5533	.4474	.2914	-.5521

ALPHA ( 6 ) = 15.866 BETA ( 2 ) = .185 MACH = 1.3929 Q = 599.99 P = 441.82 RV/L = 2.9183

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CF

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/0V	.000	.6993	.4963	.3270	.3230	.2099	
.025	.0931	-.0187		-.1425	.4687	.4295	
.050	.2306	.1507		-.1472	.4685	.4290	
.150	.2754	.0600		.1556	.4253	.3683	
.300	.0716	-.0355		.4697	.4054	.3135	
.520	-.1187	.2380		.3962	.2342	.0385	
.695	-.4550	.8938	-.1690	.5750	.4621	.3121	-.5166
.775	-.5020	.7669	.7617	.6595	.5974	.3499	-.5601
.900		.6660	.5360	.5150	.4538	.3530	-.5613

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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(XEBV38)

ANES 11-07310A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 3 ) = 15.858 BETA ( 3 ) = 4.285 MACH = 1.3929 Q = 599.99 P = 441.82 RV/L = 2.9183

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X, CV							
.000	.7652	.5244		.2876		.3682	.3856
.025	.1213	-.1159		-.3114		.3389	.3506
.050	.2567	-.1142		-.2936		.3374	.3587
.100	.2820	.0105		-.1863		.3304	.3402
.150	.0753	-.0752		.2262		.1886	.3211
.200	-.1400	.0921		.3575		.2165	-.0017
.250	-.4520	.7490	-.1703	.4752	.4582	.3783	-.5209
.300	-.7340	.8440	.7144	.6725	.6139	.3691	-.5752
.350		.5500	.5493	.5083	.4596	.3454	-.5826



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XE8V39) ( 13 AUG 75 )

# REFERENCE DATA

REF = 1000.000 SQ.FT. XMRP = 1076.690 IN. X0  
REF = 47.900 IN. YMRP = .000 IN. Y0  
REF = 938.580 IN. ZMRP = 375.000 IN. Z0  
SCALE = .0300

# PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 85.000  
BOFLAP = 16.300 L-ELVN = 10.000  
R-ELVN = 10.000 MACH = 1.250

ALPHA ( 1 ) = -3.991 BETA ( 1 ) = -3.847 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

## SECTION ( 1 ) VERTICAL

Z (1)	1580	3170	4590	6020	6970	8390	9250
W/CV							
000	.7621	.6240	.6436	.4945	.4107		
025	.5824	.4587	.7399	.8187	.7555		
050	.5949	.4613	.7340	.8035	.7373		
075	.4817	.3549	.7590	.7609	.6679		
100	.3300	.3445	.8400	.7444	.6149		
125	.1739	.9153	.9202	.7363	.3804		
150	-.2261	1.1522	.8374	.7043	-.4631		
175	.0957	.9300	.8549	.6005	-.6006		
200		.8328	.7547	.6138	.3987		

W/CV

ALPHA ( 1 ) = -3.979 BETA ( 2 ) = .190 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

## SECTION ( 1 ) VERTICAL

Z (1)	1580	3170	4590	6020	6970	8390	9250
W/CV							
000	.9135	.6899	.7601	.7719	.7108		
025	.2845	.0351	.3679	.7260	.6737		
050	.4387	.2367	.5384	.7220	.6666		
075	.3783	.2155	.6680	.7119	.6332		
100	.2223	.1463	.8117	.7314	.6022		
125	.0595	.6771	.7997	.7052	.3376		
150	-.3265	1.1246	.7881	.7559	-.4367		
175	-.0532	.9568	.8371	.7644	-.5886		
200		.7571	.6378	.6163	-.6279		

W/CV

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV39)

ALPHA ( 1 ) = -3.989 BETA ( 3 ) = 4.277 MACH = 1.2464 Q = 599.79 P = 551.57 RN/L = 3.0146

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV

.000	.7482	.6149	.6617	.7732	.6855
.025	.0729	.1591	.2706	.5313	.4424
.050	.1046	.1541	.2838	.5320	.4783
.150	.2057	.0018	.3691	.5490	.4865
.300	.1445	.0232	.4690	.5566	.4816
.450	.1218	.5568	.6126	.4831	.1766
.600	.14705	.7541	.6041	.4480	.4464
.750	.10683	.9128	.6572	.3894	.5723
.900	.7273	.7614	.5278	.3099	.6134

ALPHA ( 2 ) = .059 BETA ( 1 ) = -3.868 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV

.000	.6377	.5504	.5783	.4094	.3091
.025	.5085	.3885	.6169	.7496	.6869
.050	.5263	.3837	.6268	.7363	.6708
.150	.4135	.2836	.6824	.7023	.6064
.300	.2614	.2729	.7780	.6900	.5620
.450	.0900	.3957	.8546	.6748	.3185
.600	.4277	.11055	.8473	.6311	.4681
.750	.0037	.9528	.8021	.5523	.5928
.900	.7507	.7133	.6337	.3647	.6252

ALPHA ( 2 ) = .052 BETA ( 2 ) = .177 MACH = 1.2462 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/CV

.000	.6568	.5825	.5350	.6751	.6161
.025	.5050	.0247	.1269	.6680	.6225
.050	.5079	.2734	.3046	.6637	.6116
.150	.4244	.1624	.5989	.6559	.5757
.300	.1654	.0839	.7510	.6718	.5426
.450	.0010	.6446	.6697	.6124	.2545
.600	.17773	.1078	.6911	.6609	.4534
.750	.1035	.9336	.7312	.6888	.5815
.900	.7521	.7174	.6554	.3426	.6080

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6809

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV39)

ALPHA ( 2 ) = .021 BETA ( 1 ) = 4.254 MACH = 1.2468 Q = 599.66 P = 551.10 RN/L = 3.0101

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6809	.5492	.5387	.7034	.6234
.025	-.0216	-.1959	.1431	.4892	.3999
.050	.0169	-.1981	.1599	.5020	.4505
.100	.1378	-.0713	.2587	.5186	.4656
.200	.0951	-.0155	.3635	.5233	.4363
.300	-.0718	.5151	.5526	.4153	.1445
.400	-.5237	.8178	.4294	.3493	-.4965
.500	-.1623	.8574	.6462	.2672	-.5999
.600	.7114	.7040	.6564	.4942	.1863
.700					-.6278

ALPHA ( 3 ) = 3.934 BETA ( 1 ) = -3.873 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6274	.4900	.4765	.3275	.1930
.025	.3859	.3055	.4438	.6701	.6110
.050	.4173	.3166	.4902	.6608	.5994
.100	.3227	.2222	.6015	.6339	.5398
.200	.1924	.1333	.7119	.6303	.5041
.300	.0327	.7413	.7339	.6032	.2481
.400	-.5215	1.0639	.7731	.5750	-.4792
.500	-.0855	.9137	.7325	.6767	.5071
.600	.7535	.6673	.5905	.5081	.3257
.700					-.6206

ALPHA ( 3 ) = 3.935 BETA ( 2 ) = .189 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7115	.5553	.4956	.5502	.5092
.025	.1675	-.0234	-.0765	.6015	.5653
.050	.3405	.1526	-.0241	.5982	.5513
.100	.2912	.0391	.5395	.5977	.5128
.200	.1098	.0227	.6725	.5916	.4809
.300	-.0520	.4321	.5616	.5107	.1594
.400	-.5233	1.0176	.5479	.4613	-.4760
.500	-.1723	.8540	.6159	.4142	-.5950
.600	.7102	.6898	.6182	.2844	-.6121

ORBITAL BURN  
OF POOL QUALITY

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV39)

ALPHA ( 3 ) = 3.939 BETA ( 3 ) = 4.242 MACH = 1.2469 Q = 599.77 P = 551.10 RN/L = 3.0099

SECTION ( 1 ) VERTICAL

Z ( ft ) 1580 1370 1150 930 6020 6970 8390 9250

X/CV  
 .000 .6075 .4935 .4298 .6277 .5574  
 .025 .0645 .2735 .0332 .4456 .3625  
 .050 .0112 .2222 .0001 .4712 .4154  
 .075 .1051 .0395 .1233 .4870 .4405  
 .100 .0429 .0649 .2491 .4825 .4055  
 .125 .1422 .3693 .5142 .3366 .1183  
 .150 .1471 .8939 .1640 .3965 .2810  
 .175 .2245 .8197 .8351 .4974 .1548  
 .200 .6559 .6244 .5244 .0973 .6355

ALPHA ( 4 ) = 7.935 BETA ( 1 ) = -3.863 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131

SECTION ( 1 ) VERTICAL

Z ( ft ) 1580 1370 1150 930 6020 6970 8390 9250

X/CV  
 .000 .5457 .4534 .3680 .2456 .1045  
 .025 .7378 .2400 .2617 .5960 .5364  
 .050 .7362 .2791 .3321 .5868 .5286  
 .075 .6716 .3222 .3355 .5643 .4738  
 .100 .7147 .3655 .6560 .5657 .4400  
 .125 .6155 .3707 .7028 .5301 .1842  
 .150 .6229 .10361 .6775 .6274 .5036  
 .175 .6237 .6033 .5087 .6054 .4393  
 .200 .6337 .6302 .5012 .4523 .2765

ALPHA ( 4 ) = 7.937 BETA ( 2 ) = .182 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131

SECTION ( 1 ) VERTICAL

Z ( ft ) 1580 1370 1150 930 6020 6970 8390 9250

X/CV  
 .000 .5873 .4893 .4115 .4400 .3848  
 .025 .7378 .2400 .2617 .5960 .5364  
 .050 .7362 .2791 .3321 .5868 .5286  
 .075 .6716 .3222 .3355 .5643 .4738  
 .100 .7147 .3655 .6560 .5657 .4400  
 .125 .6155 .3707 .7028 .5301 .1842  
 .150 .6229 .10361 .6775 .6274 .5036  
 .175 .6237 .6033 .5087 .6054 .4393  
 .200 .6337 .6302 .5012 .4523 .2765

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TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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ALPHA ( 4 ) = 7.878 BETA ( 3 ) = 4.243 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0131  
 AXES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V39)

SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.6368	.4628	.3436	.5494	.4906
.025	.0856	-.2383	-.2726	.4030	.3226
.050	.1348	-.2172	-.2080	.4297	.3748
.150	.1653	-.0748	-.0155	.4352	.4010
.300	-.0218	-.1177	.2568	.4132	.3755
.520	-.1898	.2509	.4941	.2630	.0726
.685	-.4516	.8489	.5397	.4688	.2539
.775	-.2712	.7526	.6764	.5750	.5518
.900		.6095	.5648	.4943	.1772
					.6035

ALPHA ( 5 ) = 11.869 BETA ( 1 ) = -3.849 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.6668	.4283	.3052	.1552	.0081
.025	.2793	.1925	.1642	.5282	.4643
.050	.3524	.2126	.2135	.5214	.4648
.150	.2174	.1105	.5060	.5053	.4128
.300	.0437	.0071	.6151	.5025	.3828
.520	-.0742	.4134	.6229	.4536	.1290
.685	-.5266	1.0425	.5967	.5447	.4277
.775	-.2476	.8790	.7788	.5407	.3710
.900		.7212	.5036	.4054	.2324
					-.6168

ALPHA ( 5 ) = 11.810 BETA ( 2 ) = .187 MACH = 1.2475 Q = 600.06 P = 550.87 RN/L = 3.0127

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6270 .8390 .9250  
 X/CV

.000	.6704	.4476	.3435	.3580	.2744
.025	.1615	-.0634	-.1852	.4785	.4491
.050	.3069	.1195	-.1701	.4790	.4349
.150	.2279	.0154	.4005	.4811	.4004
.300	.0246	-.0679	.5293	.4445	.3347
.520	-.1455	.2780	.4133	.3208	.0030
.685	-.5543	.9025	-.1609	.4010	.2657
.775	-.2713	.7802	.7564	.5494	.5440
.900		.6350	.5681	.2605	-.5934
				.2437	-.6104

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6812

ALPHA ( 5 ) = 11.866 BETA ( 3 ) = 4.252 MACH = 1.2475 Q = 600.06 P (XEBV39)

SECTION ( 1 ) VERTICAL

RV/L = 550.87

P

Q

R

S

T

U

V

W

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Z

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AB

AC

AD

AE

AF

AG

AH

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AK

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AN

AO

AP

2/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000 .6619 .4284 .2761 .4666 .4139  
 .025 .0663 -.2404 -.3521 .3761 .2970  
 .050 .1320 -.2248 -.3233 .3886 .3398  
 .100 .1651 -.0966 -.0550 .3829 .3506  
 .150 .0342 -.1150 .2496 .3390 .3183  
 .200 -.2132 .1707 .4231 .1915 .0169  
 .250 -.5032 .8199 .4728 .2139 .5668  
 .300 -.3451 .6929 .6264 .1609 .5873  
 .350 .5631 .5495 .5106 .2288 .6008

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV40) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 GREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 85.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = 1.100

ALPHA ( 1 ) = -3.999 BETA ( 1 ) = -3.842 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6946	.5645		.5426		.4389	.3663
.025	.5344	.4093		.6953		.7425	.6731
.050	.5259	.4159		.6791		.7236	.6512
.100	.4046	.3623		.6843		.6737	.5734
.150	.2784	.3654		.7512		.6548	.5150
.200	.1682	.8221		.8455		.6494	.2671
.250	-.2128	1.0614	-.1899	.8210	.7618	.6197	-.5849
.300	-.0649	.6931	.8466	.7592	.6979	.4937	-.6661
.350		.7038	.6492	.5749	.5030	.2682	-.7033

ALPHA ( 1 ) = -3.997 BETA ( 2 ) = .194 MACH = 1.1017

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7485	.6217		.7397		.7093	.6364
.025	.2540	-.0080		.4160		.6330	.5751
.050	.3731	.2114		.5182		.6268	.5695
.100	.2872	.1535		.6019		.6141	.5344
.150	.1354	.2493		.7324		.6155	.5023
.200	.0838	.6963		.7564		.6353	.2405
.250	-.1981	1.0500	-.1696	.7378	.7027	.6061	-.5678
.300	-.1028	.8914	.8732	.7576	.6857	.4668	-.6597
.350		.6785	.6455	.5795	.5017	.2596	-.6845

RN/L = 3.1883

P = 707.47

Q = 601.11

P

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV40)

ALPHA ( 1 ) = -3.996 BETA ( 3 ) = 4.277 MACH = 1.1017 Q = 601.11 P = 707.47 RN/L = 3.1883

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6712	.5407	.6700		.7147	.6371
.025	.0286	-.3316	.2355		.4416	.3240
.050	.0408	-.2369	.2445		.4461	.3886
.100	.1297	-.0550	.3253		.4745	.4148
.150	.0276	-.0178	.4655		.4771	.4160
.200	-.1113	.5729	.5953		.4296	.0573
.250	-.2381	.7355	.5849	.5140	.3978	-.5495
.300	-.1139	.8512	.6279	.5390	.3550	-.6436
.350		.6801	.5494	.4461	.2285	-.6798

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.867 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1860

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6430	.4870	.4920		.3414	.2646
.025	.4538	.2901	.6143		.6793	.6102
.050	.4576	.3022	.6027		.6637	.5918
.100	.3229	.2224	.6242		.6167	.5178
.150	.1654	.2392	.7042		.6013	.4622
.200	.0577	.7908	.7643		.5892	.2052
.250	-.1941	1.0363	.7588	.6997	.5555	-.5617
.300	-.0715	.8570	.8069	.6495	.4439	-.6357
.350		.6865	.6078	.5301	.2263	-.6624

ALPHA ( 2 ) = .018 BETA ( 2 ) = .181 MACH = 1.1001 Q = 600.08 P = 708.37 RN/L = 3.1880

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7058	.5561	.6574		.6373	.5610
.025	.1683	-.0681	.3134		.5875	.5284
.050	.3240	.1491	.4561		.5844	.5225
.100	.2379	.0708	.5527		.5705	.4864
.150	.0729	.0145	.6888		.5851	.4519
.200	-.0849	.6119	.6815		.5648	.1728
.250	-.1409	1.0360	.6704	.6324	.5233	-.5528
.300	-.0736	.8580	.8395	.7092	.4240	-.6218
.350		.6839	.6146	.5473	.2179	-.6501



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .012 BETA ( 3 ) = 4.250 MACH = 1.100! Q = 600.03 P = 708.37 RN/L = 3.1860  
 AMES 11-073(CA148) -140A/B/C/R ORB VERTICAL (XEB9440)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .6262 .4737 .5506 .6514 .5728  
 .025 -.0617 -.3551 .1531 .4103 .3104  
 .050 -.0301 -.3085 .1668 .4223 .3758  
 .150 .0850 -.1194 .2487 .4396 .3845  
 .300 -.0177 -.1262 .3711 .4417 .3621  
 .520 -.1970 .4669 .5501 .3527 .0031  
 .695 -.3546 .6511 -.1558 .5373 .2983 -.5311  
 .775 -.1452 .7286 .8102 .6155 .4755 -.6059  
 .900 .6158 .6104 .5586 .4100 .1644 -.6303

ALPHA ( 3 ) = 3.919 BETA ( 1 ) = -3.865 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

## SECTION ( 1 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .6073 .4344 .4321 .2430 .1644  
 .025 .3498 .2141 .5082 .6106 .5409  
 .050 .3763 .2297 .5096 .5962 .5272  
 .150 .2581 .1361 .5533 .5585 .4604  
 .300 .1068 .0529 .6461 .5440 .4119  
 .520 -.0605 .7001 .7235 .5256 .1344  
 .695 -.2430 1.0146 -.1473 .6293 .4863 -.5437  
 .775 -.0981 .8371 .7630 .6664 .5988 .3927 -.6012  
 .900 .5622 .5692 .4824 .4102 .1923 -.6326

ALPHA ( 3 ) = 3.917 BETA ( 2 ) = .178 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .6777 .4996 .5430 .5543 .4839  
 .025 .1417 -.1026 .1748 .5359 .4792  
 .050 .2904 .1077 .3463 .5331 .4714  
 .150 .2015 .0151 .4892 .5218 .4321  
 .300 .0222 -.0513 .6413 .5397 .3950  
 .520 -.1319 .5027 .5862 .4830 .1004  
 .695 -.3566 1.0115 -.1421 .5430 .4348 -.5148  
 .775 .8315 .8048 .6606 .5638 .3527 -.5641  
 .900 .6343 .5766 .5092 .4226 .1748 -.5906

ORIGINAL PAGE IS  
 OF POOR QUALITY

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEDV40)

ALPHA ( 3 ) = 3.924 BETA ( 3 ) = 4.244 MACH = 1.1005 Q = 600.31 P = 708.14 RN/L = 3.1848

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5924	.4267	.4031	.5798	.5067
.025	-.1034	-.3722	.0212	.3707	.2892
.050	-.0448	-.3362	.0273	.3879	.3420
.100	.0486	-.1703	.1173	.3983	.3446
.300	-.0617	-.1698	.2778	.4026	.3157
.520	-.2554	.3458	.5319	.2944	-.0398
.695	-.4135	.5924	.5534	.3896	.2301
.775	-.2246	.7447	.6403	.4588	.1573
.900		.5508	.5595	.4321	.0964

ALPHA ( 4 ) = 7.901 BETA ( 1 ) = -3.860 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6126	.3806	.3616	.1494	.0488
.025	.3358	.1544	.3881	.5350	.4712
.050	.3511	.1731	.4077	.5298	.4611
.100	.2139	.0685	.4833	.4991	.4046
.300	.3233	-.0269	.5858	.4906	.3642
.520	-.11210	.5280	.6640	.4578	.0731
.695	-.3449	.9327	.6425	.5747	.5351
.775	-.1307	.8138	.6047	.5407	.5745
.900		.6261	.4372	.3578	.1638

ALPHA ( 4 ) = 7.905 BETA ( 2 ) = .181 MACH = 1.1015 Q = 600.67 P = 707.22 RN/L = 3.1834

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6468	.4310	.3665	.4423	.3789
.025	.1337	-.1399	-.0560	.4812	.4256
.050	.2628	.0557	.1685	.4737	.4143
.100	.1506	-.0444	.4239	.4637	.3711
.300	-.0397	-.1225	.5681	.4652	.3376
.520	-.1953	.3638	.4626	.3811	.0110
.695	-.5128	.9494	.4862	.3345	-.5211
.775	-.2148	.7852	.6004	.4895	-.5654
.900		.5973	.4663	.3731	-.5952

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV40)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = 7.934 BETA ( 3 ) = 4.239 MACH = 1.1015 Q = 600.67 P = 707.22 RV/L = 3.1834

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6018	.3755	.2753	.5064	.4412		
.000	.025	-.0336	-.2150	.3189	.2594		
.025	.0255	-.3314	-.1638	.3421	.2991		
.050	.0695	-.1936	-.0651	.3532	.3062		
.075	.1302	-.2281	.2479	.3593	.2040		
.100	.2239	.2684	.5167	.2448	-.0286		
.125	.4477	.6569	.5297	.4393	.2060	-.4893	
.150	.775	.7302	.5507	.4920	.1086	-.5354	
.175	.6686	.5521	.4322	.3789	.1051	-.5741	
.200							

ALPHA ( 5 ) = 11.906 BETA ( 1 ) = -3.844 MACH = 1.0995 Q = 600.08 P = 709.07 RV/L = 3.1837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6396	.3638	.2875	.0421	-.0919		
.000	.025	.1896	.0850	.4781	.4091		
.025	.2752	.1164	.3458	.4710	.4082		
.050	.1372	.0108	.4445	.4478	.3524		
.075	.0500	-.0925	.5602	.4445	.3151		
.100	.1747	.4154	.5669	.3973	.0139		
.125	.5413	.5975	.5029	.3718	-.5815		
.150	.775	.8143	.7172	.3070	-.6226		
.175	.2343	.6415	.5212	.3205	.1310	-.6495	
.200							

ALPHA ( 5 ) = 11.908 BETA ( 2 ) = .188 MACH = 1.0995 Q = 600.08 P = 709.07 RV/L = 3.1837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.6303	.3929	.2920	.3625	.3149		
.000	.025	.0992	-.1824	.4330	.3802		
.025	.2351	.0214	-.1603	.4278	.3682		
.050	.1341	-.0831	.3691	.4257	.3302		
.075	.0704	-.1629	.5011	.3969	.2850		
.100	.2433	.2679	.3683	.3015	-.0667		
.125	.6037	.9178	.1313	.3479	.2419	-.5674	
.150	.2613	.7450	.7073	.4431	.2036	-.6166	
.175	.5710	.4904	.4283	.3498	.0919	-.6468	
.200							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.855 BETA ( 3 ) = 4.250 MACH = 1.0995 Q = 600.06 P = 709.07 RN/L = 3.1837

(XEBV40)

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 57	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6361	.3542		.2028		.4378	.3285
.025	.0021	-.3999		-.3787		.2798	.2383
.050	.1036	-.3427		-.3206		.2890	.2463
.150	.0752	-.2073		-.1395		.3086	.2352
.300	-.1539	-.2628		.2843		.3010	.2366
.520	-.3429	.2037		.4357		.1777	-.1079
.685	-.5627	.7176	-.1447	.4472	.3910	.1563	-.5416
.775	-.2254	.6824	.6536	.5096	.4397	.1034	-.5531
.900		.5137	.4772	.4021	.3258	.1339	-.5886

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV411) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 SQ FT. XMRP = 1076.6800 IN. XO  
LREF = 474.6000 IN. YMRP = .0000 IN. YO  
SREF = 935.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 85.000  
BDFLAP = 16.300 L-ELVN = 10.000  
R-ELVN = 10.000 MACH = .900

ALPHA ( 1 ) = -3.997 BETA ( 1 ) = -3.840 MACH = .8393 Q = 599.67 P = 1057.8 RN/L = 3.5780

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	1580	3170	4590	6020	6970	8390	9250
X/CV							
000	.5037	.3759		.3214	.2978	.2298	
025	.3963	.3235		.6043	.6114	.5337	
050	.3783	.3124		.5756	.5898	.5085	
075	.2567	.2533		.5601	.5285	.4206	
100	.1515	.2533		.6083	.5039	.3556	
125	.0038	.6553		.7151	.5058	.1057	
150	.1536	.9333	-.2205	.6916	.6343	.1057	
175	.2893	.7537	.7003	.6142	.5491	.3308	-.3730
200		.5443	.4793	.4088	.3356	.1140	-.3702

ALPHA ( 1 ) = -3.997 BETA ( 2 ) = .189 MACH = .89993

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	1580	3170	4590	6020	6970	8390	9250
X/CV							
000	.5765	.5046		.6197	.5762	.4921	
025	.0909	-.1382		.3126	.4790	.4091	
050	.2020	.1021		.3743	.4726	.4093	
075	.1138	.0829		.4581	.4569	.3675	
100	.0205	.1409		.5797	.4626	.3339	
125	-.0743	.5703		.6336	.4996	.0891	
150	.1856	.9370	-.2153	.5776	.4716	-.3535	
175	-.2917	.7359	.7215	.6186	.5455	-.3639	
200		.5163	.4639	.4041	.3282	-.0983	-.3790

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV41)

ALPHA ( 1 ) = -3.932 BETA ( 3 ) = 4.274 MACH = .8993 0 = 599.67 P = 1057.8 RN/L = 3.5780

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1580	3170	4590	6020	6970	8390	9250
40							
100	.4875	.3553		.5732		.5786	.4899
125	.4169	-.5756		.0934		.2777	.0945
150	.3441	-.1250		.1074		.2862	.1957
175	.2707	-.4015		.1795		.3067	.2625
200	.1974	.0057		.3145		.3169	.2713
225	.1240	.4004		.4529		.2734	-.0507
250	.0496	.7573		.5834		.2476	-.3328
275	-.0242	1.043	-.2126	.7151	.3682	.2003	-.3772
300	-.0983	1.277	.6905	.8458	.2786	.0927	-.4075

ALPHA ( 2 ) = .052 BETA ( 1 ) = 3.863 MACH = .89853 0 = 598.47 P = 1059.0 RN/L = 3.5741

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1580	3170	4590	6020	6970	8390	9250
40							
100	.4747	.3043		.2370		.2223	.1481
125	.3756	.2541		.1583		.5604	.4782
150	.2762	.2482		.5339		.5383	.4574
175	.1769	.1593		.5205		.4816	.3731
200	.0775	.2151		.5730		.4580	.3057
225	-.0213	.3441		.6511		.4505	.0541
250	-.1200	.4701	-.1960	.7302	.5740	.4266	-.3640
275	-.2180	.5947	.6858	.8093	.5027	.2826	-.3872
300	-.3145	.7145	.8504	.8673	.2914	.0700	-.3860

ALPHA ( 3 ) = .055 BETA ( 2 ) = .182 MACH = .89853 0 = 598.47 P = 1059.0 RN/L = 3.5741

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1580	3170	4590	6020	6970	8390	9250
40							
100	.5003	.4154		.5617		.5146	.4272
125	.4052	.3315		.2750		.4352	.3661
150	.3092	.2331		.3360		.4307	.3630
175	.2147	.1455		.4197		.4159	.3218
200	.1196	.2345		.5414		.4187	.2865
225	.0242	.3441		.6816		.4422	.0407
250	-.0713	.4701	-.2044	.8219	.5233	.4094	-.3426
275	-.1680	.5947	.5756	.9591	.6008	.2798	-.3614
300	-.2645	.7145	.7320	.1092	.0049	.0049	-.3801

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TERMINATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V41)

ALPHA ( 3 ) = .070    BETA ( 3 ) = 4.253    MACH = .89853    0 = 598.47    P = 1059.0    RN/L = 3.5741

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z-BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.4286	.2933	.4979	.5195	.4166
.025	-.2634	-.5823	.0412	.2505	.0971
.050	-.1744	-.5934	.0578	.2588	.1997
.075	-.1661	-.2551	.1310	.2704	.2386
.100	-.2326	-.0448	.2642	.2642	.2135
.125	-.2162	.4573	.4234	.2133	-.1195
.150	-.2113	.6200	-.2077	.3052	.1766
.175	-.2561	.6727	.6504	.3441	-.3558
.200		.4664	.4273	.2524	.1410
				.0426	-.4020

ALPHA ( 3 ) = 3.947    BETA ( 1 ) = -3.868    MACH = .89830    0 = 598.51    P = 1059.5    RN/L = 3.5778

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z-BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.3843	.2459	.1181	.1295	.0730
.025	.2389	.1755	.5186	.5087	.4224
.050	.2364	.1827	.4886	.4933	.4054
.075	.1206	.1426	.4862	.4369	.3230
.100	.0314	.1636	.5395	.4134	.2569
.125	-.0745	.6239	.6038	.3919	.0103
.150	-.1453	.8769	.5106	.3629	-.3690
.175	-.2024	.7081	.6264	.4487	.2345
.200		.5146	.3263	.2476	.0292
					-.3955

ALPHA ( 3 ) = 4.018    BETA ( 2 ) = .184    MACH = .89830    0 = 598.51    P = 1059.5    RN/L = 3.5778

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z-BV    .1590    .3170    .4590    .6020    .6970    .8390    .9250

X/CV

.000	.4914	.3535	.4976	.4552	.3660
.025	-.0755	-.2655	.2517	.3944	.3210
.050	.0577	-.0517	.3017	.3904	.3158
.075	-.0372	-.0359	.3931	.3748	.2786
.100	-.1192	.0555	.5033	.3790	.2433
.125	-.1197	.5273	.5206	.3859	-.0049
.150	-.1140	.6504	.4915	.3400	-.3521
.175	-.1273	.6717	.6265	.2222	-.3736
.200		.4519	.3230	.0254	-.3758

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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ALPHA (3) = 4.018 BETA (3) = 4.245 MACH = .89830 Q = 599.51 P = 1059.5 RN/L = 3.5778  
 AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBV11)

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
4/CV							
1000	.3732	.2358	.4221	.4612	.3438		
1025	-.2968	-.7349	.0077	.2241	.0969		
1050	-.2013	-.6570	.0190	.2317	.1653		
1075	-.1954	-.5533	.0824	.2340	.1968		
1100	-.3207	-.0792	.2078	.2189	.1625		
1125	-.2556	.4547	.4006	.1572	.1591		
1150	-.2022	.6519	.2869	.2582	.1002		
1175	-.2079	.5222	.5965	.3081	.0720		
1200	-.4504	.4504	.3845	.2329	.0035		

ALPHA (1) = 7.919 BETA (1) = -3.861 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
4/CV							
1000	.2376	.1668	.1073	.0473	-.0050		
1025	.1918	.1500	.4834	.4632	.3701		
1050	.1927	.1510	.4683	.4451	.3535		
1075	.0700	.1061	.4552	.3967	.2786		
1100	-.0129	.1339	.5097	.3678	.2162		
1125	-.0487	.6100	.5519	.3431	-.0252		
1150	-.1972	.8754	.5229	.4540	.3652		
1175	-.2376	.7130	.6087	.4083	.1920		
1200		.5169	.3950	.2940	-.0045		

ALPHA (2) = 7.925 BETA (2) = .181 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5789

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
4/CV							
1000	.4529	.2833	.4468	.3952	.2995		
1025	.1172	-.6375	.2276	.3559	.2862		
1050	.0424	-.0783	.2816	.3521	.2742		
1075	-.0464	-.0778	.3606	.3291	.2292		
1100	.1517	.0274	.4759	.3395	.1948		
1125	.1929	.4765	.4669	.3074	-.0541		
1150	-.0408	.6532	.4397	.2650	-.3532		
1175	-.2466	.5459	.4850	.3926	.1639		
1200		.3766	.2877	.2018	-.0091		



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/8/C/R ORB VERTICAL

(XEGW11)

ALPHA ( 4 ) = 7.677 BETA ( 3 ) = 4.247 MACH = .89927 Q = 599.06 P = 1058.3 RN/L = 3.5769

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3362	.1773	.3613	.3997	.2815
.025	-.2845	-.7239	-.0239	.1935	.0978
.050	-.2039	-.6576	-.0104	.2046	.1276
.100	-.2028	-.3708	.0528	.1998	.1529
.150	-.3062	-.1246	.1634	.1681	.1112
.200	-.2766	.4544	.4094	.0966	-.1895
.250	-.2318	.6823	.3963	.2429	.0639
.300	-.2367	.6180	.5759	.2905	.3514
.350	-.2367	.4034	.3636	.2157	-.0251
.400					-.4059

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.850 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3542	.1585	.0336	-.0628	-.1093
.025	-.0208	.0173	.4382	.4128	.3093
.050	-.0705	.0270	.4196	.4049	.3040
.100	-.0384	.0366	.4201	.3507	.2330
.150	-.1063	.0836	.4786	.3284	.1754
.200	-.1632	.0845	.5162	.2955	-.0357
.250	-.2362	.0791	.4758	.2500	-.3898
.300	-.2370	.7109	.4445	.3706	-.4016
.350	-.3277	.5277	.2578	.1730	-.3879

ALPHA ( 5 ) = 11.848 BETA ( 2 ) = 191 MACH = .89863 Q = 598.63 P = 1059.0 RN/L = 3.5769

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3014	.2563	.3956	.3396	.2479
.025	-.0604	-.2804	.1744	.3148	.2391
.050	-.0213	-.1289	.2477	.3110	.2370
.100	-.0710	-.1055	.3259	.2952	.2004
.150	-.1714	-.0050	.4328	.3082	.1654
.200	-.2707	.0477	.4619	.2881	-.0833
.250	-.2707	.0477	.4619	.2881	-.0833
.300	-.2707	.0477	.4619	.2881	-.0833
.350	-.2707	.0477	.4619	.2881	-.0833
.400	-.2707	.0477	.4619	.2881	-.0833
.450	-.2707	.0477	.4619	.2881	-.0833
.500	-.2707	.0477	.4619	.2881	-.0833
.550	-.2707	.0477	.4619	.2881	-.0833
.600	-.2707	.0477	.4619	.2881	-.0833
.650	-.2707	.0477	.4619	.2881	-.0833
.700	-.2707	.0477	.4619	.2881	-.0833
.750	-.2707	.0477	.4619	.2881	-.0833
.800	-.2707	.0477	.4619	.2881	-.0833
.850	-.2707	.0477	.4619	.2881	-.0833
.900	-.2707	.0477	.4619	.2881	-.0833
.950	-.2707	.0477	.4619	.2881	-.0833
.1000	-.2707	.0477	.4619	.2881	-.0833

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TABLE 1 - FEB 76 REGULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL  
(XEBV41)  
P = 593.63  
RN/L = 3.5769

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

P = 593.63

RN/L = 3.5769

DEPENDENT VARIABLE CP

CP

CP

CP

CP

CP

CP

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBW42) ( 13 AUG 75 )

## REFERENCE DATA

CRF = 2630.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRP = 336.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 85.000  
 BDFLAP = 16.300 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = .600

ALPHA ( 1 ) = -4.049 BETA ( 1 ) = -7.852 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696  
 ALPHA ( 2 ) = -3.971 BETA ( 2 ) = -3.842 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .025 .050 .075 .100 .125 .150 .175 .200 .225 .250 .275 .300 .325 .350 .375 .400 .425 .450 .475 .500 .525 .550 .575 .600 .625 .650 .675 .700 .725 .750 .775 .800 .825 .850 .875 .900 .925 .950 .975 .990

DEPENDENT VARIABLE CP  
 -5163 -2713 -2963  
 .6061 .5479 .4432  
 .5980 .5413 .4345  
 .5429 .4692 .3403  
 .5427 .4190 .2444  
 .6089 .3940 .0086  
 .5876 .3657 .3471  
 .5037 .2316 -.3655  
 .2748 .0814 -.3707  
 .2188  
 .5806 .5037 .4476  
 .3310 .2251

## SECTION ( 2 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .025 .050 .075 .100 .125 .150 .175 .200 .225 .250 .275 .300 .325 .350 .375 .400 .425 .450 .475 .500 .525 .550 .575 .600 .625 .650 .675 .700 .725 .750 .775 .800 .825 .850 .875 .900 .925 .950 .975 .990

DEPENDENT VARIABLE CP  
 .0596 .1188 .0287  
 .5494 .5238 .4411  
 .5092 .4990 .4151  
 .4666 .4278 .3150  
 .4981 .4001 .2452  
 .6074 .4096 .0218  
 .5932 .3927 -.3462  
 .4917 .2408 -.3521  
 .2596 .0724 -.3523  
 .2176  
 .5694 .4425  
 .6347 .3123

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV42)

ALPHA ( 1 ) = -3.889 BETA ( 3 ) = .191 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5162	.4908	.5419	.4905	.4111	
.025	.0344	-.1366		.2527	.3608	.2907	
.050	.1425	.0879		.3081	.3670	.2921	
.150	.0948	.0779		.3563	.3433	.2586	
.300	.0085	.1107		.4564	.3551	.2279	
.500	-.1492	.4973		.5478	.4162	.0412	
.695	-.2609	.8272	-.2169	.5343	.5000	.4130	-.3160
.775	-.2793	.6289	.5736	.4933	.4351	.2505	-.3339
.900		.3421	.2837	.2432	.1916	.0636	-.3419

ALPHA ( 4 ) = -3.983 BETA ( 4 ) = 4.273 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION ( 4 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.3765	.2939	.4803	.4607	.3752	
.025	-.2427	-.4403		-.0247	.0605	-.1479	
.050	-.1852	-.3301		.0053	.0872	-.0013	
.150	-.1378	-.1634		.1381	.1518	.1661	
.300	-.1000	-.0052		.2995	.2990	.2168	
.500	-.2055	.4357		.4543	.3400	-.0143	
.695	-.2747	.5805	-.2167	.4465	.4325	.3408	-.3287
.775	-.2820	.6204	.5373	.4179	.3724	.2599	-.3518
.900		.3078	.2621	.2171	.1431	.0747	-.3596

ALPHA ( 5 ) = -3.993 BETA ( 5 ) = 8.343 MACH = .59622 Q = 593.85 P = 2386.3 RN/L = 4.8696

## SECTION ( 5 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	-.0180	-.3109	.0406	-.2347	.1651	
.025	-.1510	-.7829		-.3130	.0645	.0167	
.050	-.4829	-.6613		-.3034	.0778	.0313	
.150	-.6042	-.6190		-.2562	.0641	-.0162	
.300	-.2678	-.2512		-.2349	.0037	-.0060	
.500	-.2726	.2205		.0423	-.2048	-.2503	
.695	-.3058	.7937	-.2200	-.0006	-.1946	-.2534	-.3784
.775	-.3056	.7167	.5527	.1937	-.1238	-.2588	-.3538
.900		.2639	.2375	.3195	.0555	-.2326	-.4165

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ALPHA ( 2 ) = -.003 BETA ( 1 ) = -7.885 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734  
 (XEBW42)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.15	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0446	-.3545		-.5851	-.3322	-.3160	
.025	.4668	.4494		.5576	.4983	.3911	
.050	.4137	.4082		.5505	.4950	.3921	
.150	.2806	.3032		.5052	.4289	.3008	
.300	.1676	.2638		.5045	.3855	.2181	
.520	-.0464	.5737		.5675	.3585	.0100	
.685	-.2557	.8046	-.2085	.4860	.3344	-.2934	
.775	-.3028	.6461	.5502	.4614	.2101	-.3040	
.900		.4102	.2985	.2414	.1909	.0726	-.2955

ALPHA ( 2 ) = .104 BETA ( 2 ) = -3.860 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3117	.1607		-.0083	.0393	-.0672	
.025	.3040	.2943		.5018	.4687	.3879	
.050	.2717	.2710		.4697	.4486	.3631	
.150	.1696	.1949		.4287	.3771	.2713	
.300	.0733	.1783		.4666	.3546	.2019	
.520	-.1057	.5417		.5582	.3570	-.0082	
.685	-.2566	.8026	-.2041	.5348	.3406	-.3293	
.775	-.2818	.6153	.5368	.4512	.4027	-.3453	
.900		.3725	.2772	.2214	.1676	.0402	-.3316

ALPHA ( 2 ) = .114 BETA ( 3 ) = .190 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4698	.4330		.4899	.4326	.3507	
.025	-.0039	-.1763		.2210	.3187	.2489	
.050	.0967	.0451		.2716	.3214	.2489	
.150	.0318	.0377		.3237	.3015	.2158	
.300	-.0322	.0734		.4196	.3102	.1862	
.520	-.1792	.4843		.4975	.3578	.0010	
.685	-.2695	.8118	-.2032	.4738	.3390	.3305	
.775	-.2828	.5334	.5325	.4508	.3924	-.3435	
.900		.3245	.2500	.2039	.1481	.0301	-.3364

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBW42)

ALPHA ( 2 ) = .111 BETA ( 4 ) = 4.251 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3132	.2134	.4157	.3392	.3009
.025	-.3024	-.4848	-.0586	.0530	-.1623
.050	-.2501	-.3974	-.0177	.0617	-.0333
.150	-.1943	-.2293	.0847	.0714	.1361
.300	-.1480	-.0369	.2398	.2525	.1710
.520	-.2352	.4136	.4292	.3022	-.0559
.665	-.2839	.5917	-.2067	.3639	.3105
.775	-.2839	.5366	.5027	.3987	.2150
.900	-.2839	.2938	.2259	.1967	.0443

ALPHA ( 2 ) = .040 BETA ( 5 ) = 8.310 MACH = .59612 Q = 593.61 P = 2386.1 RN/L = 4.8734

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0724	-.4139	-.0398	.1619	.1056
.025	-.5548	-.8522	-.3439	.0230	.0216
.050	-.5503	-.7498	-.3406	.0355	.0430
.150	-.6695	-.7400	-.3057	.0114	.0013
.300	-.3551	-.2639	-.3201	-.0540	-.0519
.520	-.2999	.2369	.0841	-.2481	-.2857
.665	-.3220	.3544	-.2132	-.0056	-.2347
.775	-.3151	.3469	.5052	.2204	-.1509
.900	-.3151	.1869	.2569	.3113	.0914

ALPHA ( 3 ) = 4.041 BETA ( 1 ) = -7.899 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0897	-.3978	-.6485	-.3637	-.3336
.025	.4272	.4010	.5083	.4507	.3503
.050	.3733	.3598	.5043	.4528	.3562
.150	.2334	.2713	.4665	.3949	.2850
.300	.1379	.2287	.4727	.3594	.2139
.520	-.0598	.3596	.5237	.3316	.0283
.665	-.2541	.7797	.4949	.4424	.3147
.775	-.3122	.6757	.5167	.4247	.2084
.900	-.3122	.3939	.2623	.1638	.0747

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEB142)

ALPHA ( 3 ) = 3.969 BETA ( 2 ) = -3.860 MACH = .59674 Q = 594.79 P = 2386.0 RV/L = 4.8833

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2642	.1029		-.0680		-.0442	-.1320
.025	.2584	.2453		.4601		.4209	.3404
.050	.2324	.2313		.4292		.4053	.3211
.100	.1260	.1602		.3902		.3380	.2297
.200	.0330	.1482		.4275		.3140	.1650
.300	-.1379	.5255		.5071		.3135	-.0173
.400	-.2623	.7715	-.2002	.4809	.4313	.3002	-.2946
.500	-.2829	.5984	.5030	.4136	.2579	.1753	-.3162
.600		.3588	.2524	.1907	.1430	.0338	-.2936

ALPHA ( 3 ) = 4.049 BETA ( 3 ) = .193 MACH = .59674

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4366	.3826		.4386		.3728	.2940
.025	-.0421	-.1999		.1836		.2776	.2048
.050	.0575	.0117		.2420		.2840	.2123
.100	-.0027	.0055		.2918		.2615	.1758
.200	-.0685	.0465		.3876		.2764	.1475
.300	-.1997	.4596		.4509		.3088	-.0292
.400	-.2691	.7833	-.1920	.4304	.3829	.2786	-.3369
.500	-.2798	.5725	.5027	.4103	.3451	.1567	-.3543
.600		.3143	.2214	.1688	.1133	.0003	-.3404

ALPHA ( 3 ) = 3.947 BETA ( 4 ) = 4.242 MACH = .59674

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2702	.1458		.3463		.3321	.2670
.025	-.3259	-.5543		-.0824		.0326	-.1675
.050	-.2898	-.4429		-.0416		.0408	-.0374
.100	-.2244	-.2633		.0429		.0127	.1291
.200	-.1784	-.0547		.1971		.2280	.1368
.300	-.2474	.3372		.4197		.2703	-.0644
.400	-.2759	.5707	-.1334	.4058	.3066	.2739	-.3055
.500	-.2782	.4915	.4669	.3748	.2646	.1776	-.3177
.600		.2535	.1950	.1737	.0842	.0109	-.3102

Q = 594.79 P = 2386.0 RV/L = 4.8833

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV42)

ALPHA ( 3 ) = 3.985 BETA ( 5 ) = 8.292 MACH = .59674 Q = 594.79 P = 2386.0 RN/L = 4.8833

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1257	-.4901	-.1020	.0915	.0163
.025	-.5940	-.9420	-.3506	-.0083	.0054
.050	-.6182	-.8217	-.3261	-.0135	.0106
.075	-.7306	-.8489	-.3074	-.0449	-.0280
.100	-.3460	-.2654	-.3176	-.0932	-.0908
.125	-.3285	.2699	.0063	-.2574	-.2850
.150	-.3190	.4049	-.2088	-.0553	-.2515
.175	-.3190	.3760	.3892	.1825	-.2869
.200	-.3040	.2016	.2005	.0297	-.2982
.225				.2408	-.3558
.250				.0297	-.3824

ALPHA ( 4 ) = 7.905

BETA ( 1 ) =

MACH = .59644

Q

P

2386.1

RN/L

4.8802

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1302	-.4805	-.7129	-.4367	-.4054
.025	.3751	.3636	.4500	.3992	.2863
.050	.3353	.3388	.4628	.4089	.3101
.075	.212	.2515	.4368	.3581	.2470
.100	.1201	.2233	.4403	.3215	.1709
.125	-.0783	.5474	.4821	.2845	-.0025
.150	-.2584	.7603	.4524	.2610	-.2502
.175	-.3331	.6159	.3907	.3442	.1604
.200		.3944	.1971	.1581	.0479
.225					-.2478

ALPHA ( 2 ) = 7.915

BETA ( 2 ) =

MACH = .59644

Q

P

2386.1

RN/L

4.8802

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2536	.0539	-.1245	-.1078	-.1870
.025	.2095	.2152	.4234	.3745	.2876
.050	.1888	.1991	.3925	.3611	.2713
.075	.0914	.1362	.3644	.3006	.1927
.100	.0119	.1286	.3970	.2779	.1307
.125	-.1442	.5165	.4690	.2691	-.0523
.150	-.2715	.7625	.4348	.2452	-.2091
.175	-.2827	.5886	.4700	.3197	-.3121
.200		.3568	.2226	.1113	.0040
.225					-.2057



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ALPHA ( 4 ) = 8.038 BETA ( 3 ) = .180 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802  
 (XEBV42)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 .4078 .3411 .4002 .3248 .2407  
 .025 -.0633 -.2280 .1621 .2476 .1680  
 .050 .0280 -.0202 .2101 .2412 .1722  
 .150 -.0325 -.0214 .2623 .2271 .1395  
 .300 -.0942 .0286 .3560 .2500 .1125  
 .520 -.2128 .4528 .4084 .2604 -.0575  
 .665 -.2576 .7617 -.1919 .3359 .2234 -.3293  
 .775 -.2683 .5507 .4677 .3773 .1229 .3559  
 .900 .3089 .1942 .1413 .0865 -.0212 -.3413

ALPHA ( 4 ) = 8.035 BETA ( 4 ) = 4.244 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 .2619 .0937 .2866 .2703 .2115  
 .025 -.3435 -.5796 -.1082 .0038 -.1827  
 .050 -.3091 -.4444 -.0742 .0177 -.0467  
 .150 -.2374 -.2788 -.0128 -.0234 .1144  
 .300 -.2013 -.0739 .1933 .1940 .0878  
 .520 -.2755 .3976 .3569 .2226 -.0851  
 .665 -.2570 .5677 -.1965 .2627 .2252 -.3188  
 .775 -.2437 .4872 .4326 .3459 .2429 .3334  
 .900 .2491 .1672 .1368 .0753 -.0345 -.3190

ALPHA ( 4 ) = 8.035 BETA ( 5 ) = 8.296 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8802

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 -.1779 -.5600 -.1593 .0054 -.0842  
 .025 -.6701 -.9930 -.3362 -.0600 -.0395  
 .050 .6679 .8639 .3246 -.0503 .0230  
 .150 .7985 .8808 .3020 .0774 .0710  
 .300 .3579 .2714 .3034 .1246 .1110  
 .520 .3427 .2498 .0774 .2369 .2634  
 .665 .2962 .4810 -.2141 -.2525 .2609 .3297  
 .775 .3013 .4533 .3218 .0240 .1994 .2948 .3017  
 .900 .2451 .1721 .1868 -.0430 -.2178 .3086

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV42)

ALPHA ( 5 ) = 11.910 BETA ( 1 ) = -7.853 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 -.1322 -.5774 -.7717 -.5146 -.4748  
 .025 .3026 .3390 .4084 .3478 .2259  
 .050 .2487 .3089 .4294 .3651 .2613  
 .100 .1221 .2250 .4129 .3265 .2061  
 .150 .0476 .2096 .4133 .2894 .1469  
 .200 -.1028 .5532 .4486 .2475 .0277  
 .250 -.2559 .7653 -.1898 .3502 .2196 .2478  
 .300 -.2560 .6252 .4647 .3587 .1348 .2504  
 .400 .4027 .1283 .1704 .0289 .2280

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = -3.836 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2712 .0376 -.1759 -.1752 -.2403  
 .025 .1937 .1936 .3913 .3376 .2443  
 .050 .1806 .1763 .3572 .3249 .2339  
 .100 .0954 .1131 .3407 .2721 .1643  
 .150 -.0182 .1105 .3748 .2520 .1008  
 .200 .1749 .5225 .4320 .2336 .0707  
 .250 .2077 .7508 -.1975 .3343 .2128 .2776  
 .300 .2622 .5907 .4495 .2913 .1172 .2731  
 .400 .3620 .1423 .2078 .0913 .0062 .2681

ALPHA ( 5 ) = 11.965 BETA ( 3 ) = .177 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3934 .3097 .3605 .2756 .1901  
 .025 -.0694 .2399 .1380 .2156 .1413  
 .050 .0169 .0348 .1917 .2144 .1404  
 .100 .0458 .0359 .2359 .1969 .1071  
 .150 .1117 .0179 .3297 .2260 .0826  
 .200 .2278 .4495 .3747 .2189 .0894  
 .250 .2593 .7457 .3529 .2929 .1779 .3480  
 .300 .2717 .5497 .4419 .2799 .0921 .3553  
 .400 .3059 .1732 .1156 .0628 .0364 .3416

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ALPHA ( 5 ) = 11.976 BETA ( 4 ) = 4.252 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825  
(XEBW42)

SECTION 1 INVERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV		
.1580	.370	.4590	.6020 .6970 .8390 .9250
.000	.2756	.0685	.2327
.025	.3412	.5974	-.1371
.050	.3026	.4776	-.1030
.100	.2394	.2910	-.0491
.150	.2212	.0895	.1748
.200	.2736	.4029	.3760
.250	.2530	.5804	.3620
.300	.2459	.4919	.3209
.350	.2538	.1481	.1128
.400			.0684
.450			-.0579
.500			-.3105
.550			.2379
.600			.2306
.650			.0785
.700			.1883
.750			.1852
.800			-.0857
.850			-.3042
.900			-.3254
.950			-.3105

ALPHA ( 5 ) = 12.034 BETA ( 5 ) = 8.318 MACH = .59658 Q = 594.43 P = 2385.8 RN/L = 4.8825

SECTION 1 INVERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV		
.1580	.3170	.4590	.6020 .6370 .8390 .9250
.000	.1958	.6275	-.2366
.025	.7333	.9853	-.3591
.050	.7523	.8834	-.3641
.100	.4981	.9284	-.3523
.150	.4375	.2970	-.3802
.200	.4301	.1939	-.0744
.250	.3550	.4938	-.0921
.300	.3574	.4442	-.3119
.350		.2668	.0543
.400		.1065	.1747
.450			-.0062
.500			-.2507
.550			-.3872
.600			-.1393
.650			-.0692
.700			-.0701
.750			-.1039
.800			-.1271
.850			-.0910
.900			-.1766
.950			-.1539
.980			-.3133
.990			-.3108
.995			-.3644
.998			-.3719
.999			-.3872

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV43) ( 13 AUG 75 )

# REFERENCE DATA

REF = 2590.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.9000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0880 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.070 BETA ( 1 ) = -3.850 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

## PARAMETRIC DATA

RUDDER = .000 SPDRK = 56.000  
 BOXFLAP = 22.500 L-ELVN = 10.000  
 R-ELVN = 10.000 MACH = .900

## SECTION ( 1 ) VERTICAL

### DEPENDENT VARIABLE CP

Z	Y	X	CP
0.0	0.0	0.0	.3932
0.0	0.0	0.1	.3536
0.0	0.0	0.2	.3327
0.0	0.0	0.3	.2831
0.0	0.0	0.4	.2841
0.0	0.0	0.5	.4249
0.0	0.0	0.6	.3908
0.0	0.0	0.7	.2221
0.0	0.0	0.8	.0235
0.0	0.0	0.9	.4912
0.0	0.0	1.0	.4113
0.0	0.0	1.1	.3927
0.0	0.0	1.2	.3182
0.0	0.0	1.3	.2796
0.0	0.0	1.4	.3315
0.0	0.0	1.5	.3315
0.0	0.0	1.6	.3469
0.0	0.0	1.7	.3431
0.0	0.0	1.8	.3481

### DEPENDENT VARIABLE CP

Z	Y	X	CP
0.0	0.0	0.0	.5514
0.0	0.0	0.1	.0523
0.0	0.0	0.2	.1013
0.0	0.0	0.3	.1521
0.0	0.0	0.4	.1866
0.0	0.0	0.5	.2885
0.0	0.0	0.6	.3386
0.0	0.0	0.7	.2185
0.0	0.0	0.8	.0354
0.0	0.0	0.9	.5539
0.0	0.0	1.0	.4757
0.0	0.0	1.1	.1494
0.0	0.0	1.2	.0486
0.0	0.0	1.3	.1224
0.0	0.0	1.4	.1087
0.0	0.0	1.5	.0784
0.0	0.0	1.6	.3636
0.0	0.0	1.7	.3501
0.0	0.0	1.8	.3692

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6835

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEB943)

ALPHA ( 1 ) = -.4078 BETA ( 3 ) = 4.272 MACH = .89793 Q = 598.79 P = 1060.9 RN/L = 3.6697

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4715	.3436	.3375	.3029	.2326
.025	-.1941	-.6720	-.5931	-.2104	-.1776
.050	-.1160	-.5950	-.5908	-.2085	-.1634
.100	-.1432	-.3171	-.5143	-.2116	-.1426
.150	-.2392	-.3121	-.2587	-.2179	-.1828
.200	-.3908	.0229	.2551	-.1471	-.2921
.250	-.4145	.1932	.3238	.1883	-.1118
.300	-.4145	.1932	.3238	.1883	-.1118
.350	-.4145	.1932	.3238	.1883	-.1118
.400	-.4145	.1932	.3238	.1883	-.1118
.450	-.4145	.1932	.3238	.1883	-.1118
.500	-.4145	.1932	.3238	.1883	-.1118
.550	-.4145	.1932	.3238	.1883	-.1118
.600	-.4145	.1932	.3238	.1883	-.1118
.650	-.4145	.1932	.3238	.1883	-.1118
.700	-.4145	.1932	.3238	.1883	-.1118
.750	-.4145	.1932	.3238	.1883	-.1118
.800	-.4145	.1932	.3238	.1883	-.1118
.850	-.4145	.1932	.3238	.1883	-.1118
.900	-.4145	.1932	.3238	.1883	-.1118

ALPHA ( 2 ) = -.029 BETA ( 1 ) = -3.865 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6486

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4307	.2785	.3121	.4192	.3559
.025	.2867	.1585	.3171	.3778	.3212
.050	.2861	.1555	.2941	.3581	.3072
.100	.1210	.0746	.2529	.2861	.2174
.150	-.0050	.0068	.2605	.2496	.1427
.200	-.1951	.1953	.3699	.2906	.0786
.250	-.1951	.1953	.3699	.2906	.0786
.300	-.1951	.1953	.3699	.2906	.0786
.350	-.1951	.1953	.3699	.2906	.0786
.400	-.1951	.1953	.3699	.2906	.0786
.450	-.1951	.1953	.3699	.2906	.0786
.500	-.1951	.1953	.3699	.2906	.0786
.550	-.1951	.1953	.3699	.2906	.0786
.600	-.1951	.1953	.3699	.2906	.0786
.650	-.1951	.1953	.3699	.2906	.0786
.700	-.1951	.1953	.3699	.2906	.0786
.750	-.1951	.1953	.3699	.2906	.0786
.800	-.1951	.1953	.3699	.2906	.0786
.850	-.1951	.1953	.3699	.2906	.0786
.900	-.1951	.1953	.3699	.2906	.0786

ALPHA ( 2 ) = -.015 BETA ( 2 ) = .186 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6486

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5107	.3704	.4912	.5015	.4051
.025	-.0298	-.3139	-.2482	-.0760	-.1638
.050	.0920	-.0786	.0191	.0682	.0423
.100	-.0168	-.1271	.0599	.1235	.0968
.150	-.1643	-.1520	.1358	.1581	.0778
.200	-.3124	.0941	.3185	.2504	.0530
.250	-.3124	.0941	.3185	.2504	.0530
.300	-.3124	.0941	.3185	.2504	.0530
.350	-.3124	.0941	.3185	.2504	.0530
.400	-.3124	.0941	.3185	.2504	.0530
.450	-.3124	.0941	.3185	.2504	.0530
.500	-.3124	.0941	.3185	.2504	.0530
.550	-.3124	.0941	.3185	.2504	.0530
.600	-.3124	.0941	.3185	.2504	.0530
.650	-.3124	.0941	.3185	.2504	.0530
.700	-.3124	.0941	.3185	.2504	.0530
.750	-.3124	.0941	.3185	.2504	.0530
.800	-.3124	.0941	.3185	.2504	.0530
.850	-.3124	.0941	.3185	.2504	.0530
.900	-.3124	.0941	.3185	.2504	.0530

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XCBV43)

ALPHA ( 2 ) = -.021 BETA ( 3 ) = 4.247 MACH = .89677 Q = 597.91 P = 1052.1 RN/L = 3.6486

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4191	.2705	.2550	.2237	.1491
.025	-.2831	-.7345	-.6487	-.2326	-.1813
.050	-.1913	-.6435	-.6378	-.2302	-.1626
.100	-.1370	-.3563	-.5826	-.2304	-.1515
.150	-.2975	-.3817	-.3051	-.2387	-.1861
.200	-.4895	-.0012	-.2879	-.1657	-.2988
.250	-.3332	.1762	-.2005	.2350	-.1438
.300	-.5524	.0591	.1445	.2180	-.0892
.350	-.10559	-.0134	-.0014	.0257	-.1210
.400					-.3592

ALPHA ( 3 ) = 2.931 BETA ( 1 ) = -3.870 MACH = .89677 Q = 597.91 P = 1052.1 RN/L = 3.6364

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3908	.2286	.2246	.3360	.2798
.025	-.1013	.0324	.2937	.3509	-.2994
.050	-.1070	.0941	.2692	.3296	.2774
.100	-.2548	.0214	.2336	.2602	.1847
.150	-.1044	-.0259	.2390	.2186	.1108
.200	-.2241	.1492	.3514	.2466	.0570
.250	-.3341	.0391	.3243	.3144	-.2743
.300	-.1013	.1621	.1956	.0118	-.2995
.350	-.1833	.0597	.0274	-.0304	-.3044
.400					-.1784

ALPHA ( 2 ) = -.021 BETA ( 3 ) = 4.247 MACH = .89677 Q = 597.91 P = 1052.1 RN/L = 3.6324

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4075	.3057	.4269	.4455	.3374
.025	-.1002	-.3399	-.2541	-.0873	-.1708
.050	-.0590	-.1076	-.0027	.0584	.0203
.100	-.2818	-.1824	.0454	.1018	.0714
.150	-.2438	-.1854	.1174	.1345	.0548
.200	-.4333	-.0318	.2861	.2186	.0283
.250	-.2351	.0418	.2693	.1943	-.3207
.300	-.1240	.0514	.1522	.1266	-.3356
.350	-.0142	-.0143	-.0600	-.02157	-.3527
.400					-.3527

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBW43)

ALPHA ( 3 ) = 3.933 BETA ( 3 ) = 4.242 MACH = .89677 Q = 597.91 P = 1062.1 RN/L = 3.6364

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3636	.2125	.1619	.1491	.0673
.025	-.3074	-.7578	-.6656	-.2437	-.1977
.050	-.2118	-.6974	-.6671	-.2427	-.1830
.100	-.2073	-.4417	-.5879	-.2437	-.1695
.150	-.3563	-.4295	-.3383	-.2558	-.2071
.200	-.5174	.0188	.2489	-.1975	-.2935
.250	-.3530	.1858	.2446	.2762	-.2956
.300	-.2769	.0691	.1240	.1835	-.3115
.350	-.0540	-.0344	-.0408	-.0156	-.3193

ALPHA ( 4 ) = 7.999 BETA ( 1 ) = -3.866 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3221	.1543	.1744	.2628	.2009
.025	.1348	.0589	.2614	.3230	.2645
.050	.1530	.0821	.2360	.3019	.2406
.100	.0195	-.0199	.2024	.2332	.1512
.150	-.1109	-.0565	.2168	.1929	.0797
.200	-.2527	.1477	.3271	.2285	.0305
.250	-.3100	.3069	.3015	.1901	-.2828
.300	-.2531	.1918	.1780	.1353	-.3032
.350	.0756	.0612	.0070	-.0518	-.2962

ALPHA ( 4 ) = 8.005 BETA ( 2 ) = .180 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3878	.2354	.3783	.3795	.2735
.025	-.1032	-.4101	-.2553	-.1093	-.1685
.050	.0151	-.1810	-.0237	.0754	.0029
.100	-.0922	-.2287	.0201	.0718	.0425
.150	-.2671	-.2305	.0969	.1088	.0214
.200	-.3648	.0555	.2591	.1723	.0062
.250	-.2372	.2154	.2620	.1495	-.2325
.300	-.2519	.1169	.1325	.0920	-.3209
.350	.0091	-.0353	-.0925	-.2239	-.3294

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

IXEBV43)

ALPHA ( 4 ) = 8.004 BETA ( 3 ) = 4.244 MACH = .89613 Q = 597.48 P = 1062.9 RN/L = 3.6207

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1593	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3194	.1471	.0911	.0624	-.0179		
.025	-.3194	-.7689	-.6641	-.2608	-.2162		
.050	-.2233	-.7146	-.6425	-.2672	-.1983		
.075	-.1655	-.6808	-.5830	-.2648	-.1815		
.100	-.1247	-.6738	-.5431	-.2857	-.2207		
.125	-.0932	-.6841	-.5187	-.2179	-.2998		
.150	-.0612	-.7136	-.4854	-.2263	-.1739	-.2880	
.175	-.0312	-.7634	-.4406	-.1475	-.1025	-.3026	
.200	-.0012	-.8377	-.3879	-.0523	-.0467	-.1147	-.3063

ALPHA ( 3 ) = 1.977 BETA ( 1 ) = -3.853 MACH = .89753 Q = 598.58 P = 1061.4 RN/L = 3.6129

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1593	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3138	.1039	.1747	.1078			
.025	-.3138	-.2062	-.2926	-.2344			
.050	-.2062	-.1891	-.2694	-.2084			
.075	-.1891	-.1593	-.2050	-.1191			
.100	-.1593	-.1039	-.1664	-.0472			
.125	-.1039	-.3033	-.1957	-.1028			
.150	-.3033	-.2035	-.2507	-.3145			
.175	-.2035	-.1626	-.1107	-.0476	-.3230		
.200	-.1626	-.0512	-.0733	-.2307	-.3292		

ALPHA ( 2 ) = 1.932 BETA ( 0 ) = 1.932 MACH = .89753 Q = 598.58 P = 1061.4 RN/L = 3.6129

SECTION 1 : VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1593	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3135	.1035	.1745	.1075			
.025	-.3135	-.2060	-.2925	-.2340			
.050	-.2060	-.1885	-.2690	-.2080			
.075	-.1885	-.1585	-.2045	-.1185			
.100	-.1585	-.1035	-.1660	-.0470			
.125	-.1035	-.3030	-.1950	-.1020			
.150	-.3030	-.2030	-.2500	-.3140			
.175	-.2030	-.1620	-.1100	-.0470	-.3230		
.200	-.1620	-.0510	-.0730	-.2300	-.3290		



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV43)

A.14 ( 5 ) = 11.978 BETA ( 3 ) = 4.261 MACH = .89753 Q = 598.50 P = 1061.4 RV/L = 3.6129

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z.12V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3427	.1292	.0409	-.0386	-.1390
.025	-.1	-.6319	-.7932	-.3401	-.2842
.050	-.0633	-.5205	-.7619	-.3351	-.2671
.100	-.1438	-.4102	-.5476	-.3382	-.2570
.200	-.3331	-.4223	-.1730	-.3349	-.3121
.300	-.5072	-.0852	.1454	-.1398	-.3728
.400	-.4116	.0863	.1495	-.0225	-.3380
.500	-.3077	.0047	.0467	-.0315	-.3408
.600		-.0928	-.0959	-.1175	-.3420

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB VE ITICAL

DATE 14 FEB 76

.XEBV44) ( 13 AUG 75 )

P-RAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
BOFLAP = 22.500 L-ELVN = 10.000  
R-ELVN = 10.000 MACH = .600

RN/L = 4.8840

P = 2387.2

Q = 593.75

Q

MACH = .59610

MACH = .6970

MACH = .8390

MACH = .9250

MACH = .9550

DEPENDENT VARIABLE CP

SECTION ( 1 ) VERTICAL

ALPHA ( 1 ) = -4.010	BETA ( 1 ) = -7.850	MACH = .59610	Q	P = 593.75	RN/L = 4.8840
1.580	3.170	.4590	.6020	.6970	.8390
.0141	-.2403	-.2382	.0317	.0156	.4360
.000	.0141	.5297	.4932	.4360	.3934
.028	.0773	.4775	.4611	.3934	.2568
.155	.4207	.3851	.3443	.2568	.1619
.50	.2732	.2571	.2717	.1619	.0487
.900	.1518	.3052	.2838	.0487	-.1797
.920	.1316	.3569	.2453	-.1797	-.1848
.935	.1237	.3019	.0048	-.1848	-.1768
.945	.1170	.1525	-.0488	-.1768	
.950	.1125	.0625			
	-.0463	-.0789			
	BETA ( 2 ) = -3.842	MACH = .59610			

DEPENDENT VARIABLE CP

SECTION ( 2 ) VERTICAL

ALPHA ( 2 ) = -3.994	BETA ( 2 ) = -3.842	MACH = .59610	Q	P = 593.75	RN/L = 4.8840
1.580	3.170	.4590	.6020	.6970	.8390
.0141	-.2403	.2605	.3532	.2626	.3093
.000	.0141	.2525	.3606	.2626	.2840
.028	.0773	.2440	.3300	.2840	.1771
.155	.4207	.2211	.2309	.1771	.1033
.50	.2732	.1226	.1934	.1033	.0121
.900	.1518	.0463	.2634	.0121	-.2614
.920	.1316	.1254	.2368	-.2614	-.2657
.935	.1237	.2052	.2681	-.2657	
.945	.1170	.1295	.1047	-.2657	
.950	.1125	.1140	-.1047	-.2657	
	-.0463	-.0977	-.1047	-.2657	
	BETA ( 2 ) = -3.842	MACH = .59610			

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(X18V44)

ALPHA ( 1 ) = -3.985 BETA ( 3 ) = .188 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4986	.4616	.5289	.5027	.4413
.025	-.0420	-.2969	-.2307	-.0547	-.2604
.050	.0859	-.0126	.0176	.0478	.0234
.150	.0162	-.0446	.0589	.0715	.0460
.300	-.0800	-.0734	.0932	.1001	.0290
.520	-.2706	.1063	.2515	.2010	-.0139
.685	-.2898	.1911	-.2056	.2248	.1868
.775	-.2535	.0539	.0752	.0594	-.0106
.900	-.1253	-.1472	-.1450	-.1383	-.1232

ALPHA ( 1 ) = -3.992 BETA ( 4 ) = 4.269 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3301	.1890	.2484	.1443	.1069
.025	-.3233	-.5970	-.4196	-.3304	-.8639
.050	-.2640	-.4739	-.3730	-.2942	-.6932
.150	-.2310	-.3466	-.2618	-.2450	-.2113
.300	-.2128	-.2137	-.1116	-.1322	-.1183
.520	-.3433	-.0279	.0684	.0294	-.0653
.685	-.3179	.0986	.0750	.1528	.0417
.775	-.2781	-.0175	-.0194	-.0026	-.0752
.900	-.1933	-.1895	-.2093	-.1864	-.1478

ALPHA ( 1 ) = -4.007 BETA ( 5 ) = 8.349 MACH = .59610 Q = 593.75 P = 2387.2 RN/L = 4.8840

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0599	-.4428	-.3323	-.2726	-.1640
.025	-.5975	-1.0430	-.8153	-.4854	-.4275
.050	-.5659	-.8619	-.8156	-.4793	-.3860
.150	-.7363	-.8645	-.7895	-.4736	-.3283
.300	-.3738	-.4308	-.7068	-.4627	-.2979
.520	-.4920	-.0901	-.4086	-.3815	-.2717
.685	-.3346	-.0298	-.3397	-.3297	-.2743
.775	-.2971	-.0943	-.0072	-.2991	-.2713
.900	-.2596	-.2143	-.1599	-.2794	-.2953

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV44)

ALPHA ( 2 ) = .039 BETA ( 1 ) = -7.886 MACH = .59632 Q = 593.96 P = 2386.1 RVL = 4.8783

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0342	-.2970	-.3164	-.0681	-.0743
.025	.4330	.3925	.4828	.4535	.3955
.050	.3801	.3395	.4365	.4277	.3573
.100	.2324	.2227	.3323	.3191	.2378
.150	.0999	.1223	.2744	.2463	.1397
.200	-.1519	.2235	.3224	.2610	.0553
.250	-.2678	.2772	.2751	.2768	.2309
.300	-.2774	.1551	.1306	.1275	.0673
.350	-.0515	-.0938	-.0797	-.0657	-.0371
.400					-.0951

ALPHA ( 2 ) = .052

BETA ( 2 ) = -3.866

MACH = .59632

RVL = 4.8783

P

Q = 593.96

Q

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3113	.1804	.1855	.2672	.2095
.025	.2567	.2055	.3217	.3300	.2834
.050	.2297	.1904	.2851	.2981	.2594
.100	.1085	.0926	.2159	.2178	.1532
.150	-.0047	.0205	.1829	.1708	.0648
.200	-.2152	.1633	.2332	.2483	.0111
.250	-.2859	.2305	.2367	.2004	-.1983
.300	-.2524	.1066	.0893	.0837	-.2103
.350	-.0816	-.1203	-.1164	-.1081	-.1938

ALPHA ( 2 ) = .053

BETA ( 2 ) = -1.92

MACH = .59632

RVL = 4.8783

P

Q = 593.96

Q

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

MACH

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4535	.4051	.4725	.4411	.3726
.025	-.0733	-.3333	-.2388	-.0767	-.2585
.050	.0424	.0555	.0019	.0222	-.0022
.100	-.0306	-.0814	.0312	.0452	.0247
.150	-.1194	-.1011	.0693	.0766	.0089
.200	-.2839	.0910	.2172	.1732	-.0215
.250	-.2332	.1766	.1947	.1691	-.2206
.300	-.1245	.0459	.0333	.0336	-.2243
.350	-.1362	-.1362	-.1673	-.1199	-.1970

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .049 BETA ( 4 ) = 4.248 MACH = .59632 0 = 593.96 P = 2386.1 RN/L = 4.8783  
(XEBV44)

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/0V  
.000 .2791 .1221 .1705 .0693 .0056  
.025 .3800 .6047 .4447 .3475 .8053  
.050 .3206 .5316 .3879 .3113 .6416  
.100 .2816 .3961 .2934 .2719 .2873  
.150 .2484 .2311 .1702 .1986 .1003  
.200 .3576 .0167 .0487 .0284 .0562  
.250 .3092 .0944 .0561 .0431 .2406  
.300 .2860 .0184 .0335 .0430 .2156  
.350 .1983 .2191 .2052 .2118 .1003 .1993

ALPHA ( 2 ) = .044 BETA ( 5 ) = 8.307 MACH = .59632 0 = 593.96 P = 2386.1 RN/L = 4.8783

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/0V  
.000 .1263 .5093 .4204 .3757 .2756  
.025 .6212 .10977 .8236 .5221 .4078  
.050 .6261 .9283 .8257 .5173 .3807  
.100 .7866 .6177 .8098 .5235 .3258  
.150 .4125 .4775 .7468 .5178 .3062  
.200 .4158 .0795 .4076 .3513 .2711  
.250 .3370 .0066 .2103 .2386 .2808 .2445  
.300 .2976 .0686 .0172 .0864 .2942 .2615  
.350 .2447 .2433 .1405 .2866 .2061 .2530

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -7.902 MACH = .59694 0 = 595.02 P = 2385.4 RN/L = 4.8785

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/0V  
.000 .0669 .3728 .3935 .1513 .1378  
.025 .3931 .3484 .4377 .4122 .3475  
.050 .3437 .3022 .3994 .3860 .3197  
.100 .1933 .1936 .3066 .2856 .2107  
.150 .0719 .1004 .2570 .2195 .1167  
.200 .1551 .2211 .2955 .2285 .0397  
.250 .1868 .2523 .2483 .1963 .1154  
.300 .2225 .1414 .1208 .1099 .0471 .1235  
.350 .0471 .0369 .0854 .0726 .0448 .1138

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V44)

ALPHA 31 = 3.964 BETA ( 2 ) = -3.864 MACH = .59694 Q = 595.02 P = 2385.4 RV/L = 4.8785

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z SV .1590 .3170 .4590 .6020 .6970 .8390 .9250

Y CV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
100	.2506	.1243		.1316		.1918	.1253
200	.2525	.1715		.2966		.2976	.2507
300	.2535	.2540		.2530		.2716	.2255
400	.2527	.3648		.1911		.1930	.1253
500	.2519	.4022		.1665		.1529	.0629
600	.2507	.4639		.2575		.2048	.0102
700	.2491	.5232		.3159	.2190	.1824	-.1753
800	.2475	.5811	-.1803	.3792	.0745	.0149	-.1809
900	.2459	.6376	-.2468	.4405	-.1005	-.0764	-.1492

ALPHA 31 = 2.989 BETA ( 3 ) = .89 MACH = .59694 Q = 595.02 P = 2385.4 RV/L = 4.8785

SECTION ( 2 ) VERTICAL

DEPENDENT VARIABLE CP

Z SV .590 .3170 .4590 .6020 .6970 .8390 .9250

Y CV	.590	.3170	.4590	.6020	.6970	.8390	.9250
100	.4099	.3554		.4205		.3854	.3132
200	.4119	.4776		.4261		-.0998	-.2688
300	.4139	.6000		.4317		.0060	-.0196
400	.4159	.7224		.4373		.0313	.0370
500	.4179	.8448		.4429		.0567	-.0052
600	.4199	.9672		.4485		.0821	-.0278
700	.4219	1.0896	-.1822	.4541	.1655	.1409	-.2052
800	.4239	1.2120	-.2438	.4597	.0157	-.0355	-.2348
900	.4259	1.3344	-.3054	.4653	-.1718	-.1355	-.2021

ALPHA 31 = 1.999 BETA ( 4 ) = .89 MACH = .59694 Q = 595.02 P = 2385.4 RV/L = 4.8785

SECTION ( 3 ) VERTICAL

DEPENDENT VARIABLE CP

Z SV .590 .3170 .4590 .6020 .6970 .8390 .9250

Y CV	.590	.3170	.4590	.6020	.6970	.8390	.9250
100	.4099	.3554		.4205		.3854	.3132
200	.4119	.4776		.4261		-.0998	-.2688
300	.4139	.6000		.4317		.0060	-.0196
400	.4159	.7224		.4373		.0313	.0370
500	.4179	.8448		.4429		.0567	-.0052
600	.4199	.9672		.4485		.0821	-.0278
700	.4219	1.0896	-.1822	.4541	.1655	.1409	-.2052
800	.4239	1.2120	-.2438	.4597	.0157	-.0355	-.2348
900	.4259	1.3344	-.3054	.4653	-.1718	-.1355	-.2021

Y CV	.590	.3170	.4590	.6020	.6970	.8390	.9250
100	.4099	.3554		.4205		.3854	.3132
200	.4119	.4776		.4261		-.0998	-.2688
300	.4139	.6000		.4317		.0060	-.0196
400	.4159	.7224		.4373		.0313	.0370
500	.4179	.8448		.4429		.0567	-.0052
600	.4199	.9672		.4485		.0821	-.0278
700	.4219	1.0896	-.1822	.4541	.1655	.1409	-.2052
800	.4239	1.2120	-.2438	.4597	.0157	-.0355	-.2348
900	.4259	1.3344	-.3054	.4653	-.1718	-.1355	-.2021

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV44)

ALPHA ( 3 ) = 3.982 BETA ( 5 ) = 8.290 MACH = .59634 Q = 595.02 P = 2385.4 RN/L = 4.8785

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1747	-.5874	-.4948	-.4351	-.3537
.025	-.6875	-1.1824	-.8229	-.5080	-.3697
.050	-.6932	-.9703	-.8191	-.5106	-.3504
.100	-.8465	-1.0418	-.8169	-.5472	-.3271
.150	-.4346	-.4467	-.7880	-.5295	-.2951
.200	-.4220	-.0760	-.3986	-.3726	-.2904
.250	-.3286	-.0335	-.1931	-.4087	-.2936
.300	-.2954	-.0464	-.0570	-.2214	-.2506
.350	-.2201	-.2201	-.2790	-.2792	-.2534

ALPHA ( 4 ) = 8.025 BETA ( 1 ) = -7.890 MACH = .59616

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1232	-.4427	-.4865	-.2379	-.2277
.025	.3493	.3190	.3951	.3649	.2968
.050	.3003	.2772	.3691	.3493	.2857
.100	.1721	.1740	.2916	.2616	.1773
.150	.0564	.0927	.2387	.2016	.0876
.200	-.1644	.2141	.2765	.1988	-.0008
.250	-.2726	.2727	.2337	.1584	-.1996
.300	-.2659	.1634	.1377	.1130	-.2034
.350	-.0207	-.0780	-.0567	-.0444	-.2036

ALPHA ( 2 ) = 8.236 BETA ( 2 ) = -3.859 MACH = .59616

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2485	.0825	.0540	.1158	.0405
.025	.1700	.1503	.2756	.2690	.2239
.050	.1539	.1318	.2361	.2413	.1970
.100	.0395	.0498	.1691	.1674	.0998
.150	-.0574	-.0097	.1487	.1253	.0358
.200	-.2331	.1582	.2323	.1773	-.0166
.250	-.2904	.2233	.1916	.1469	-.1781
.300	-.2364	.1092	.0886	.0545	-.1786
.350	-.0867	-.1265	-.1189	-.1073	-.1734

RN/L = 4.8652

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TABULATED PRESSURE DATA - 0A148 ( APES 11-073-1 )

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APES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEDV44)

ALPHA ( 4 ) = 8.040 BETA ( 3 ) = .178 MACH = .59616 Q = 593.73 P = 2386.3 RN/L = 4.8652

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7955 .3171 .3726 .3350 .2569  
 .025 .1054 .3400 .2151 .1226 .2451  
 .050 .0147 .0963 .0200 .0117 .0243  
 .100 .0850 .1200 .0065 .0148 .0068  
 .200 .1668 .1233 .0401 .0441 .0205  
 .300 .3025 .0845 .1702 .1219 .0325  
 .400 .2737 .1665 .1427 .1453 .1244  
 .500 .2146 .0510 .0313 .0103 .0415  
 .600 .1198 .1820 .1766 .1283 .1635

ALPHA ( 4 ) = 8.039 BETA ( 4 ) = 4.241 MACH = .59616

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2179 .0325 .0412 .0814 .1629  
 .025 .3846 .6428 .4696 .3732 .6307  
 .050 .3616 .6219 .4242 .3375 .5126  
 .100 .3071 .3921 .3758 .3687 .3923  
 .200 .2932 .2514 .1922 .2329 .0561  
 .300 .3355 .0213 .0691 .0693 .0708  
 .400 .2397 .1032 .0679 .1073 .2080  
 .500 .2432 .0086 .0274 .0308 .0183  
 .600 .1171 .2352 .1948 .2220 .1064  
 .700 .1771 .2352 .1948 .2220 .1064  
 .800 .1771 .2352 .1948 .2220 .1064  
 .900 .1771 .2352 .1948 .2220 .1064

ALPHA ( 4 ) = 8.039 BETA ( 5 ) = 8.285 MACH = .59616

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2094 .6724 .5721 .5198 .4402  
 .025 .7216 .1193 .8157 .5422 .3817  
 .050 .7385 .1075 .8031 .5392 .3638  
 .100 .9223 .1075 .8052 .5796 .3409  
 .200 .4336 .4405 .8033 .5557 .3492  
 .300 .4267 .1359 .4038 .3706 .3508  
 .400 .3075 .0083 .1405 .3153 .2852  
 .500 .3032 .0118 .0861 .3342 .2758  
 .600 .2267 .2267 .2763 .2752 .2378  
 .700 .2267 .2267 .2763 .2752 .2378  
 .800 .2267 .2267 .2763 .2752 .2378  
 .900 .2267 .2267 .2763 .2752 .2378

Q = 593.73 P = 2386.3 RN/L = 4.8652



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 12.021 BETA ( 1 ) = -7.852 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654  
 (XEBV44)

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1339	-.5481	-.5665	-.3196	-.3196	-.3064	
.025	.2747	.2982	.3663	.3317	.3317	.2572	
.050	.2272	.2647	.3416	.3208	.3208	.2527	
.100	.0857	.1482	.2746	.2365	.2365	.1448	
.150	-.0020	.0848	.2246	.1815	.1815	.0636	
.200	-.1762	.2283	.2530	.1725	.1725	-.0099	
.250	-.2622	.2965	.2121	.2097	.1393	-.1971	
.300	-.2585	.1924	.0988	.0903	.0040	-.1928	
.350	-.2585	.0023	-.0806	-.0760	-.0870	-.1832	

ALPHA ( 5 ) = 11.932 BETA ( 2 ) = -3.840 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2556	.0417	.0015	.0456	-.0281		
.025	.1571	.1269	.2569	.2420	.2029		
.050	.1471	.1119	.2211	.2268	.1768		
.100	.0203	.0319	.1518	.1518	.0818		
.150	-.0852	-.0207	.1402	.1146	.0156		
.200	-.2615	.1524	.2133	.1511	-.0333		
.250	-.2808	.2319	.1760	.1744	-.1245		
.300	-.2337	.1271	.0896	.0477	-.0202		
.350	-.0471	-.1330	-.1238	-.1114	-.0964		

ALPHA ( 5 ) = 11.945 BETA ( 3 ) = .176 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3740	.2808	.3282	.2914	.2091		
.025	-.1104	-.3450	-.2110	-.1297	-.2509		
.050	-.0217	-.1102	-.0289	.0024	-.0394		
.100	-.1018	-.1305	-.0037	.0017	-.0234		
.150	-.1790	-.1319	-.0302	.0269	-.0352		
.200	-.3093	.0956	.1517	.1082	-.0413		
.250	-.2792	.1589	.1235	.1249	.0955		
.300	-.2338	.0492	.0207	-.0117	-.0536		
.350	-.1220	-.1953	-.1907	-.1806	-.1392		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV44)

ALPHA ( 5 ) = 11.941 BETA ( 4 ) = 4.247 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.000	.2439	-.0039	-.0205	-.1532	-.2384	
.025	-.3984	-.6697	-.4931	-.4378	-.3783	-.5682	
.050	-.3561	-.6579	-.4528	-.4153	-.3594	-.4767	
.100	-.3017	-.3321	-.2531	-.1848	-.1242	-.3363	
.150	-.3021	-.2531	-.1848	-.1242	-.0747	-.0850	
.200	-.3743	-.2435	-.0616	.0184	.0747	-.0746	
.250	-.2615	.1057	.0603	.0184	.1016	-.2024	
.300	-.1243	.0152	-.0429	-.0851	.0105	-.2158	
.350	-.1157	-.1157	-.2516	-.2076	-.2128	-.1146	-.1930

ALPHA ( 5 ) = 11.028 BETA ( 5 ) = 8.307 MACH = .59616 Q = 593.74 P = 2386.7 RN/L = 4.8654

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.000	.2439	-.0039	-.0205	-.1532	-.2384	
.025	-.3984	-.6697	-.4931	-.4378	-.3783	-.5682	
.050	-.3561	-.6579	-.4528	-.4153	-.3594	-.4767	
.100	-.3017	-.3321	-.2531	-.1848	-.1242	-.3363	
.150	-.3021	-.2531	-.1848	-.1242	-.0747	-.0850	
.200	-.3743	-.2435	-.0616	.0184	.0747	-.0746	
.250	-.2615	.1057	.0603	.0184	.1016	-.2024	
.300	-.1243	.0152	-.0429	-.0851	.0105	-.2158	
.350	-.1157	-.1157	-.2516	-.2076	-.2128	-.1146	-.1930

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORD VERTICAL

(XEBV43) ( 13 AUG 75 )

## REFERENCE DATA

XREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 YREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0660 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDERK = 55.000  
 BOFLAP = 22.500 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = .900

ALPHA ( 1 ) = -3.961 BETA ( 1 ) = -3.852 MACH = .89683 0 = 597.89 P = 1061.9 RN/L = 3.6441  
 ALPHA ( 2 ) = -3.932 BETA ( 2 ) = .188 MACH = .89683 0 = 597.89 P = 1061.9 RN/L = 3.6441

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4857	.3603	.3949	.4869	.4253	
.025	.3538	.2327	.3733	.3733	.4183	.3601	
.050	.3339	.2272	.3489	.3489	.3963	.3381	
.150	.2007	.1383	.2953	.2953	.3207	.2500	
.300	.0510	.0639	.2908	.2908	.2825	.1764	
.520	-.1429	.2154	.4284	.4284	.3306	.1014	
.695	-.2554	.3425	.3897	.3897	.3023	.3345	
.775	-.2358	.2061	.2724	.2724	.0553	.3390	
.900		.0712	.1020	.0783	.0245	-.1434	-.3461

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5559	.4638	.5598	.5849	.4763	
.025	.0411	-.2601	-.2185	-.2185	-.0464	-.1541	
.050	.1543	.0009	.0687	.0687	.1019	.0577	
.150	.0529	-.0587	.1009	.1009	.1531	.1286	
.300	-.0881	-.0928	.1672	.1672	.1902	.1109	
.520	-.2577	.1174	.3591	.3591	.2998	.0812	
.695	-.2985	.2856	-.2221	.3439	.2679	.3395	
.775	-.2285	.1460	.2178	.2148	.1854	.3398	
.900		.0101	.0537	.0366	-.0047	-.1664	-.3483

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV45)

ALPHA ( 1 ) = -3.942 BETA ( 3 ) = 4.270 MACH = .89683 Q = 597.89 P = 1061.9 RN/L = 3.644

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4708	.3385	.3341	.3036	.2352
.025	-.1950	-.6777	-.5819	-.2046	-.1649
.050	-.1247	-.5941	-.5661	-.1987	-.1507
.075	-.1439	-.3179	-.5138	-.2095	-.1382
.100	-.2426	-.3084	-.2822	-.2136	-.1689
.125	-.3749	.0227	.2965	-.1480	-.2805
.150	-.3149	.1979	-.2218	.1817	-.1171
.175	-.2334	.0798	.1591	.2144	-.3470
.200	-.2634	-.1572	.0108	.0535	-.1152

ALPHA ( 2 ) = .010 BETA ( 1 ) = -3.868 MACH = .89660 Q = 597.56 P = 1061.9 RN/L = 3.6228

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4708	.3385	.3105	.4127	.3561
.025	-.1950	-.6777	.3437	.3948	.3343
.050	-.1247	-.5941	.3188	.3658	.3116
.075	-.1439	-.3179	.2959	.2913	.2166
.100	-.2426	-.3084	.2684	.2533	.1453
.125	-.3749	.0227	.3061	.2879	.0780
.150	-.3149	.1979	.3534	.2806	-.2943
.175	-.2334	.0798	.1954	.0341	.3157
.200	-.2634	-.1572	.0523	-.1158	-.3270

ALPHA ( 3 ) = .005 BETA ( 2 ) = .185 MACH = .89660 Q = 597.56 P = 1061.9 RN/L = 3.6228

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4708	.3385	.4936	.5069	.4044
.025	-.1950	-.6777	-.2201	-.0619	-.1494
.050	-.1247	-.5941	.0366	.0735	.0507
.075	-.1439	-.3179	.0755	.1328	.1011
.100	-.2426	-.3084	.1449	.1648	.0836
.125	-.3749	.0227	.3255	.2555	.0571
.150	-.3149	.1979	.3094	.2335	-.3143
.175	-.2334	.0798	.1927	.0059	-.3259
.200	-.2634	-.1572	.0163	-.0292	-.3396

TABULATED PRESSURE DATA - 0A148 ( AMES 1:-073-1 )

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ALPHA ( 2 ) = .019 BETA ( 3 ) = 4.247 MACH = .89650 Q = 597.56 P = 1061.9 RN/L = 3.6228  
(XEB945)

SECTION 1 ( INVERTICAL )				DEPENDENT VARIABLE CP			
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4229	.2751		.2597	.2252	.1566	
.025	-.2782	-.7317		-.6209	-.2223	-.1789	
.050	-.1855	-.6410		-.6280	-.2199	-.1591	
.150	-.1879	-.3505		-.5450	-.2204	-.1489	
.300	-.2951	-.3768		-.3274	-.2254	-.1827	
.523	-.4519	.0305		.3009	-.1688	-.2884	
.685	-.3429	.1839	-.2106	.3056	.2323	-.1291	-.3057
.775	-.2508	.0750	.1484	.1733	.2273	-.0956	-.3199
.900		-.0517	-.0059	.0040	.0287	-.1179	-.3350

ALPHA ( 3 ) = 3.946 BETA ( 1 ) = -3.873 MACH = .89837 Q = 599.08 P = 1060.5 RN/L = 3.6099

SECTION 1 ( INVERTICAL )				DEPENDENT VARIABLE CP			
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3771	.2231		.2180	.3307	.2754	
.025	.2219	.1213		.3238	.3612	.3052	
.050	.2150	.1246		.2895	.3411	.2816	
.150	.0885	.0457		.2450	.2663	.1884	
.300	-.0263	-.0043		.2504	.2284	.1161	
.520	-.1928	.1852		.3595	.2545	.0614	
.685	-.2645	.3207	-.1833	.3274	.3167	.2403	-.2677
.775	-.2364	.1994	.2377	.2035	.1621	.0132	-.2899
.900		.0810	.0710	.0264	-.0277	-.1693	-.2902

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = .184 MACH = .89837 Q = 599.08 P = 1060.5 RN/L = 3.6099

SECTION 1 ( INVERTICAL )				DEPENDENT VARIABLE CP			
Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4811	.3184		.4392	.4458	.3381	
.025	-.0921	-.3579		-.2050	-.0755	-.1442	
.050	.0482	-.1170		.0299	.0874	.0323	
.150	-.0659	-.1348		.0635	.1032	.0770	
.300	.1930	-.1493		.1255	.1354	.0548	
.520	-.3092	.0223		.2872	.2183	.0261	
.685	-.2935	.2558	-.1857	.2723	.1969	-.3147	
.775	-.2254	.1653	.1760	.1565	.1253	-.3209	
.900		.0076	.0165	-.0158	-.2026	-.3265	

TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEE745)

P = 1050.5 RVL = 3.6099

P

Q

R

S

T

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V

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X

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Z

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AI

AJ

AK

AL

AM

AN

AO

AP

DEPENDENT VARIABLE CP

0.6970 .8390 .9250

.1669 .1418 .0869  
 .2353 .1957  
 .2216 .1801  
 .2233 .1640  
 .2431 .2006  
 .1831 .2932  
 .1719 .2930  
 .1116 .2068  
 .1231 .3078

0.6970 .8390 .9250

0.6970 .8390 .9250

0.6970 .8390 .9250

.2588 .1955  
 .3293 .2773  
 .3782 .2601  
 .4455 .1536  
 .4039 .0856  
 .2328 .0277  
 .3324 .2411  
 .3369 .0113  
 .3467 .2831  
 .3467 .2831

0.6970 .8390 .9250

0.6970 .8390 .9250

0.6970 .8390 .9250

.0994 .2559  
 .0910 .1479  
 .0959 .0317  
 .0859 .2522  
 .1217 .0272  
 .1813 .0233  
 .1592 .2354  
 .1449 .2303  
 .1550 .1190

0.6970 .8390 .9250

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0.6970 .8390 .9250

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TABULATED

DATA - 0A148 (AMES 11-073-1)

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ALPHA (4) = 7.978 BETA (3) = 10A148) -140A/B/C/R ORB VERTICAL (XEBV45)  
 SECTION (1) INVERTICAL MACH = .89753 Q = 598.50 P = 1061.4 RN/L = 3.5937  
 Z/BV .1580 .3170 .4590 .6970 .8390 .9250  
 X/CV .000 .3174 .1639 .0805 -.0165  
 .025 -.2901 -.7573 -.6162 -.2500 -.2165  
 .050 -.1959 -.7111 -.6094 -.2453 -.1905  
 .100 -.1930 -.4579 -.5575 -.2578 -.1857  
 .150 -.3437 -.4022 -.3321 -.2849 -.2502  
 .200 -.4787 .0196 .2230 -.1953 -.2398  
 .250 -.2340 .1589 -.1966 .2135 -.2398  
 .300 -.2645 .0439 .1094 .1382 -.2780  
 .350 -.0642 -.0428 -.0457 -.0370 -.1169 -.2991

ALPHA (5) = 11.950 BETA (1) = -3.856 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856  
 SECTION (1) INVERTICAL DEPENDENT VARIABLE CP  
 Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .3529 .1212 .0951 .1649 .1085  
 .025 -.0126 -.0438 .2517 .3030 .2487  
 .050 .0357 -.0012 .2174 .2829 .3184  
 .100 .0678 -.0580 .1873 .2138 .290  
 .150 .1832 -.0947 .2051 .1724 .1550  
 .200 .2883 .1318 .3094 .2001 .0032  
 .250 .3311 .3093 -.2317 .2559 .1468 -.2984  
 .300 .2696 .2051 .2228 .1627 .1168 -.0368 .3124  
 .350 .0968 .0662 -.0033 -.0657 -.2033 -.3126

ALPHA (5) = 11.961 BETA (2) = .178 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856  
 SECTION (1) INVERTICAL DEPENDENT VARIABLE CP  
 Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .3926 .2300 .3358 .3446 .2328  
 .025 -.0530 -.3452 -.2622 -.0831 -.1433  
 .050 .0247 -.1903 -.0272 .0912 .0066  
 .100 .0947 .2243 .0258 .0665 .0289  
 .150 .2470 .2520 .0995 .0907 .0069  
 .200 .3925 .0477 .2404 .1530 -.0154  
 .250 .3175 .2032 .2319 .2330 .1354 -.2994  
 .300 .2624 .1055 .1448 .1199 .0855 -.0507 .3132  
 .350 -.0032 -.0021 -.0441 -.0943 -.2299 -.3207

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV45)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 5 ) = 11.950 BETA ( 3 ) = 4.259 MACH = .89653 Q = 597.97 P = 1062.9 RN/L = 3.5856

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3489	.1494	.0426	-.0279	-.1351
.025	-.1256	-.6436	-.7521	.3100	-.2859
.050	-.0589	-.5199	-.7490	-.3181	-.2641
.100	-.1429	-.3915	-.5417	-.3287	-.2537
.150	-.3276	-.4107	-.1649	-.3259	-.2985
.200	-.4988	-.0376	.1619	-.1469	-.3479
.250	-.3858	.1006	-.2451	.1877	-.3086
.300	-.2853	.0063	.0541	.0656	-.3120
			-.0897	-.1043	-.3067



REFERENCE DATA

SREF = 2630.0000 SQ.FT.      XMRP = 1076.6800 IN. X0  
 LPLF = 474.8000 IN.      YMRP = .0000 IN. Y0  
 BREF = 936.0680 IN.      ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

ALPHA ( 1 ) = -4.081      BETA ( 1 ) = -7.851      MACH = .59592      Q = 593.39      P = 2387.4      RN/L = 4.8516

SECTION ( 1 ) VERTICAL

Z/BV      .1580      .3170      .4590      .6020      .6970      .8390      .9250

X/CV

.000      .0173      -.2393      -.2407      .0081      -.0235  
 .025      .4756      .4449      .5349      .4996      .4360  
 .050      .4306      .3938      .4774      .4633      .3984  
 .150      .2834      .2677      .3707      .3495      .2661  
 .300      .1449      .1565      .3116      .2748      .1629  
 .520      -.1238      .2457      .3585      .2859      .0557  
 .685      -.2752      .2926      .3045      .2416      -.1906  
 .775      -.2670      .1643      .1575      .0603      -.1840  
 .900      -.0299      -.0660      -.0546      -.0414      -.1631

SECTION ( 1 ) VERTICAL

ALPHA ( 1 ) = -3.953      BETA ( 2 ) = -3.833      MACH = .59592      Q = 593.39      P = 2387.4      RN/L = 4.8516

SECTION ( 1 ) VERTICAL

Z/BV      .1580      .3170      .4590      .6020      .6970      .8390      .9250

X/CV

.000      .3637      .2482      .2578      .3456      .2808  
 .025      .3165      .2505      .3550      .3617      .3070  
 .050      .2933      .2334      .3219      .3375      .2884  
 .150      .1641      .1307      .2443      .2410      .1771  
 .300      .0425      .0528      .2168      .2017      .1031  
 .520      -.1549      .1852      .3181      .2660      .0117  
 .685      -.2824      .2485      .2670      .2340      -.2447  
 .775      -.2624      .1155      .1139      .1072      -.2485  
 .900      -.0589      -.0902      -.0928      -.0951      -.2350

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) - 140A/B/C/R ORG VERTICAL

(XE8V46)

ALPHA ( 1 ) = -3.951 BETA ( 3 ) = .188 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8518

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4999	.4651	.5293	.5028	.4418
.025	-.0271	-.2872	-.2065	-.0475	-.2438
.050	.0974	-.0343	.0306	.0592	.0347
.100	.3293	-.0421	.0672	.0741	.0529
.150	.5293	-.0651	.0978	.1023	.0370
.200	.6894	.1126	.2575	.2045	-.0057
.250	.8212	.1975	.2213	.2284	.1959
.300	.9250	.2558	.0814	.0639	-.2374
.350	.9999	.3258	.1366	-.1362	-.2357
.400		.3958			-.2286

ALPHA ( 4 ) = -3.958 BETA ( 4 ) = 4.269 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8518

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3370	.1959	.2525	.1350	.1063
.025	-.3128	-.5054	-.4073	-.3238	-.8377
.050	.2577	-.4556	.3555	-.2921	-.6757
.100	.5223	-.3331	-.2517	-.2415	-.1998
.150	.7134	-.2122	-.1027	-.1256	-.1061
.200	.8312	.0277	.0742	.0404	-.0561
.250	.9131	.1344	.1642	.1586	.0433
.300	.9573	.2077	.2269	.0028	-.2782
.350		.2822	.1831	-.1824	-.2763
.400				-.1328	-.2430

ALPHA ( 5 ) = -2.973 BETA ( 5 ) = 8.335 MACH = .59592 Q = 593.39 P = 2387.4 RN/L = 4.8518

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.0577	-.1189	.3337	-.2933	-.1863
.025	.5758	-.1367	-.7949	-.5047	-.4492
.050	.5536	-.8219	-.7934	-.5000	-.4112
.100	.7226	-.8224	-.7679	-.5050	-.3541
.150	.8560	-.4711	-.6736	-.4799	-.3147
.200	.9323	.0955	-.3754	-.3860	-.2925
.250	.9353	.0198	-.2243	-.3201	-.2731
.300	.8312	.0858	-.0134	-.2585	-.2713
.350		.1463	-.2088	-.2713	-.3035
.400				-.2500	-.2935

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ALPHA ( 2 ) = .060 BETA ( 1 ) = -7.888 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479  
(XEBV46)

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	-.0357	-.3187	-.3171	-.0646	-.0605	
.025	.4379	.3941	.4876	.4530	.4256	.3959	
.050	.3910	.3520	.4390	.4174	.3884	.3630	
.150	.2399	.2290	.2805	.2518	.2182	.1462	
.300	.1154	.1272	.2805	.2613	.2613	.0625	
.520	-.1418	.2331	.2769	.2791	.2272	-.1312	
.685	-.2785	.2783	-.1710	.1347	.0606	-.1265	
.775	-.2676	.1579	.1554	.1347	.1292	-.0606	
.900		-.0416	-.0871	-.0745	-.0634	-.0279	-.0981

ALPHA ( 2 ) = .070 BETA ( 2 ) = -3.865 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.3084	.1839	.1848	.2650	.2073	
.025	.2684	.2208	.3334	.3324	.3245	.2845	
.050	.2447	.2004	.2914	.3051	.3051	.2591	
.150	.1216	.1005	.2218	.2218	.2200	.1594	
.300	.0076	.0341	.1966	.1744	.1744	.0918	
.520	-.2056	.1741	.2890	.2447	.2004	.0135	
.685	-.2796	.2348	-.1665	.2412	.2452	-.1867	
.775	-.2452	.1116	.1152	.0931	.0889	.0183	-.1984
.900		-.0753	-.1130	-.1038	-.1031	-.0834	-.1853

ALPHA ( 2 ) = .070 BETA ( 3 ) = .181 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4549	.4074	.4745	.4440	.3747	
.025	-.0651	-.3057	-.2091	-.2091	-.0671	-.2592	
.050	.0540	-.0375	.0046	.0046	.0335	.0111	
.150	-.0151	-.0702	.0478	.0478	.0570	.0317	
.300	-.1092	-.0861	.0778	.0778	.0783	.0175	
.520	-.2765	.0957	.2249	.2249	.1823	-.0139	
.685	-.2841	.1871	-.1669	.1941	.1691	-.2101	
.775	-.2440	.0589	.0600	.0410	.0412	-.0116	-.2148
.900		-.1267	-.1635	-.1552	-.1503	-.1169	-.1901

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TABULATED PRESSURE DATA - 0-114P ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV46)

ALPHA ( 2 ) = .068 BETA ( 4 ) = 4.248 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2768	.1300	.1771	.0686	.0154
.025	-.3572	-.5956	-.4316	-.3317	-.7734
.050	-.3100	-.5167	-.3795	-.2991	-.6250
.075	-.2593	-.3662	-.2850	-.2657	-.2924
.100	-.2335	-.2197	-.1603	-.1956	-.0905
.125	-.2345	.345	.0637	.0389	-.0585
.150	-.3046	.1170	-.1723	.1155	.0625
.175	-.2629	-.0258	.0067	-.0242	-.2329
.200	-.1830	-.1930	-.2067	-.2020	-.2098

ALPHA ( 2 ) = .063 BETA ( 5 ) = 8.306 MACH = .59634 Q = 594.08 P = 2386.3 RN/L = 4.8479

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1029	-.5018	-.4081	-.3955	-.2848
.025	.6166	-.10390	-.8106	-.5381	-.4156
.050	-.6115	-.8781	-.8223	-.5379	-.3848
.075	-.7620	-.9501	-.8056	-.5433	-.3372
.100	-.5906	-.4565	-.7346	-.5299	-.3068
.125	-.4060	-.0744	-.3755	-.3457	-.2549
.150	-.3380	.0467	-.1800	-.2060	-.2655
.175	-.2512	-.0657	-.0211	-.0988	-.2813
.200	-.2307	-.2307	-.2433	-.1517	-.2973

ALPHA ( 2 ) = 4.012 BETA ( 1 ) = -7.901 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0740	-.3788	-.4075	-.1538	-.1433
.025	.2997	.3528	.4386	.4165	.3520
.050	.3490	.3121	.4033	.3859	.3217
.075	.2003	.2019	.3113	.2883	.2110
.100	.0861	.1135	.2596	.2214	.1194
.125	-.1473	.2442	.2991	.2332	.0409
.150	-.2752	.2737	.2490	.2520	.2006
.175	-.2561	.1594	.1475	.1101	.0504
.200	-.0398	-.0398	-.0811	-.0668	-.0345

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ALPHA ( 3 ) = 4.016 BETA ( 2 ) = -3.862 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469  
(XEBV46)

SECTION 1 ( INVERTICAL )									
DEPENDENT VARIABLE CP									
Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.2626	.1239		.1167		.1855	.1195		
.025	.2207	.1806		.3057		.3001	.2583		
.050	.1956	.1619		.2586		.2786	.2312		
.100	.0823	.0743		.1926		.1921	.1308		
.150	-.0265	.0064		.1721		.1530	.0694		
.200	-.2183	.1671		.2628		.2036	.0042		
.250	-.2332	.2275		.2190	.2214	.34	-.1765		
.300	-.2450	.1067	-.1546	.0818	.0790	.188	-.1762		
.350		-.0753	-.1150	-.1058	-.0936	-.3736	-.1581		

ALPHA ( 3 ) = 4.027 BETA ( 3 ) = .191 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 1 ( INVERTICAL )									
DEPENDENT VARIABLE CP									
Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.4196	.3606		.4195		.3827	.3108		
.025	-.0908	-.3312		-.2055		-.0933	-.2465		
.050	.0159	-.0502		-.0060		.0155	-.0068		
.100	-.0430	-.0955		.0306		.0331	.0083		
.150	-.1334	-.1095		.0574		.0584	-.0070		
.200	-.2845	.0885		.1994		.1504	-.0324		
.250	-.2753	.1739	-.1592	.1657	.1681	.1448	-.1972		
.300	-.2336	.0525	.0499	.0225	.0171	-.0288	-.2125		
.350		-.1227	-.1678	-.1699	-.1626	-.1254	-.2017		

ALPHA ( 3 ) = 4.030 BETA ( 4 ) = 4.239 MACH = .59704 Q = 595.39 P = 2386.0 RN/L = 4.8469

SECTION 1 ( INVERTICAL )									
DEPENDENT VARIABLE CP									
Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.2373	.0791		.1093		-.0049	-.0791		
.025	-.3794	-.6095		-.4499		-.3420	-.7013		
.050	-.3391	-.5669		-.3976		-.3199	-.5548		
.100	-.3022	-.3767		-.3194		-.3037	-.4036		
.150	-.2560	-.2278		-.1768		-.2125	-.0516		
.200	-.3390	.0325		.0714		.0658	-.0589		
.250	-.2813	.1259	-.1661	.0733	.0653	.0952	-.1812		
.300	-.2562	-.0009	-.0077	-.0138	-.0529	-.0049	-.1838		
.350		-.1774	-.2205	-.1819	-.2022	-.0815	-.2080		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV46)

ALPHA = 20 = 4.375 BETA ( 1 ) = 8.288 MACH = .59704 Q = .595.39 P = 2386.0 RNV/L = 4.8459

LOCATION : VERTICAL

DEPENDENT VARIABLE CP

Z ( 1 ) 1590 13170 14590 16020 16970 18390 19250

Z ( 2 )

1612	-5922	-5011	-4620	-3724
-6639	-11286	-8060	-5410	-3868
-1678	-9829	-8126	-5450	-3602
-1688	-1349	-8008	-5660	-3418
-1681	-14393	-7617	-5353	-3237
-1688	-1509	-3950	-3523	-2917
-1688	-1653	-11920	-3773	-2654
-1688	-16584	-10682	-3141	-2442
-1688	-1720	-11375	-2274	-2393
-1688	-1720	-11375	-2965	-2433

ALPHA = 20 = 4.375 BETA ( 1 ) = -7.892 MACH = .59670 Q = .594.93 P = 2387.1 RNV/L = 4.8410

LOCATION : VERTICAL

DEPENDENT VARIABLE CP

Z ( 1 ) 1590 13170 14590 16020 16970 18390 19250

Z ( 2 )

-1306	-1347	-14983	-2366	-2241
-1306	-1347	-13978	-3681	-2981
-1306	-1347	-13702	-3475	-2807
-1306	-1347	-13702	-2659	-1799
-1306	-1347	-13702	-2008	-1867
-1306	-1347	-13702	-2025	-1029
-1306	-1347	-13702	-1633	-1819
-1306	-1347	-13702	-1024	-1869
-1306	-1347	-13702	-1024	-1869
-1306	-1347	-13702	-1024	-1869

ALPHA = 20 = 4.375 BETA ( 2 ) = -3.861 MACH = .59670 Q = .594.93 P = 2387.1 RNV/L = 4.8410

LOCATION : VERTICAL

DEPENDENT VARIABLE CP

Z ( 1 ) 1590 13170 14590 16020 16970 18390 19250

Z ( 2 )

-1306	-1347	-14983	-2366	-2241
-1306	-1347	-13978	-3681	-2981
-1306	-1347	-13702	-3475	-2807
-1306	-1347	-13702	-2659	-1799
-1306	-1347	-13702	-2008	-1867
-1306	-1347	-13702	-2025	-1029
-1306	-1347	-13702	-1633	-1819
-1306	-1347	-13702	-1024	-1869
-1306	-1347	-13702	-1024	-1869
-1306	-1347	-13702	-1024	-1869

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6861

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEB046)

ALPHA ( 4 ) = 8.012 BETA ( 3 ) = .176 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3984	.3207	.3728	.3358	.2595
.025	-.0945	-.3177	-.1806	-.1143	-.2276
.050	-.0024	-.0828	-.0062	.0223	-.0190
.100	-.0734	-.1086	.0180	.0178	-.0030
.150	-.1502	-.1107	.0482	.0475	-.0216
.200	-.2898	.0884	.1753	.1270	-.0418
.250	-.2668	.1755	.1440	.1188	-.1985
.300	-.2195	.0596	.0348	.0072	-.0418
.350	-.1124	-.1780	.0072	-.1741	-.1348
.400					-.1715

ALPHA ( 4 ) = 8.012 BETA ( 4 ) = 4.240 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2242	.0375	.0484	-.0764	-.1658
.025	-.3879	-.6219	-.4587	-.3569	-.6205
.050	-.3569	-.6078	-.4172	-.3227	-.4983
.100	-.2772	-.3708	-.3658	-.3609	-.3717
.150	-.2789	-.2382	-.1841	-.2043	-.0577
.200	-.3597	.0285	.0780	.0816	-.0707
.250	-.2652	.1131	.0733	.0465	.1060
.300	-.2462	.0011	-.0269	-.0614	-.1879
.350	-.1687	-.2350	-.1869	-.0142	-.2044
.400				-.1043	-.2124

ALPHA ( 4 ) = 8.009 BETA ( 5 ) = 8.293 MACH = .59670 Q = 594.93 P = 2387.1 RN/L = 4.8410

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1965	-.6415	-.5591	-.5301	-.4440
.025	-.7054	-.1120	-.7637	-.5527	-.3890
.050	-.7177	-.9794	-.7953	-.5614	-.3777
.100	-.8713	-.1035	-.7967	-.5982	-.3610
.150	-.4139	-.4201	-.7628	-.5473	-.3518
.200	-.4102	-.1162	-.3452	-.3389	-.3342
.250	-.2938	-.0319	-.1748	-.4062	-.2882
.300	-.2938	-.0734	-.0803	-.2982	-.2830
.350	-.2938	-.2120	-.1385	-.2512	-.2762
.400				-.2045	-.2604

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TABULATED PRESSURE DATA - 0A149 ( AMES 11-073-1 )

PAGE 6862

ALPHA ( 5 ) = 11.997 BETA ( 1 ) = -7.852 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363  
(XEBW46)

AMES 11-073(0A149) -140A/B/C/R ORB VERTICAL

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .5970 .8390 .9250

4 CV

.000	-.1321	-.5889	-.5704	-.3285	-.2952	
.025	.2750	.3090	.3682	.3333	.2544	
.050	.2329	.2723	.3465	.3218	.2498	
.075	.0964	.1633	.2729	.2449	.1525	
.100	.2110	.2997	.2324	.1863	.0724	
.125	-.1586	.2378	.2637	.1813	-.0013	
.150	-.2522	.2229	.2176	.2103	.1382	
.175	-.2512	.1366	.1446	.0971	.0198	
.200	.0735	-.0755	-.0715	-.0625	-.0793	
.225				-.1815		

ALPHA ( 5 ) = 12.009 BETA ( 2 ) = -3.842 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .5970 .8390 .9250

4 CV

.000	.2558	.3364	.0003	.0319	-.0466	
.025	.0776	.1485	.2646	.2563	.2017	
.050	.2332	.1484	.2278	.2275	.1749	
.075	.2956	.1397	.21	.1551	.0890	
.100	.2308	-.0235	.1485	.1117	.0214	
.125	.2511	.533	.2332	.1516	-.0304	
.150	.2374	.2374	.1542	.1275	.1264	
.175	.2309	.133	.2562	.0470	-.1758	
.200		.092	.1200	-.0193	-.1843	
.225				-.1005	-.1768	

ALPHA ( 5 ) = 12.012 BETA ( 3 ) = 1.0 MACH = .59692 Q = 595.28 P = 2386.8 RN/L = 4.8363

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .5970 .8390 .9250

4 CV

.000	.2309	.3303	.3302	.2924	.2042	
.025	.0776	.1485	.1485	-.1251	-.2269	
.050	.2332	.1484	-.0185	.0590	-.0224	
.075	.2956	.1397	.0090	.0071	.0149	
.100	.2308	-.0235	.0403	.0318	-.0309	
.125	.2511	.533	.1555	.1094	-.0393	
.150	.2374	.2374	.1245	.1027	-.1663	
.175	.2309	.133	.0552	-.0110	-.1983	
.200		.092	-.1641	-.1755	-.1863	
.225						



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 5863

ALPHA ( 5 ) = 11.917 BETA ( 4 ) = 4.245 MACH = .59692 Q = 595.28 P = 2386.8 PW/L = 4.8363  
 SECTION ( 1 ) VERTICAL (XEBM45)

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2636	.0032		.0080		-.1380	-.2209
.025	-.3686	-.5509		-.4680		-.3666	-.5406
.050	-.3404	-.6397		-.4243		-.3463	-.4551
.100	-.2828	-.3762		-.4066		-.4196	-.3039
.300	-.2830	-.2447		-.1628		-.2109	-.0783
.520	-.3634	.0285		.0750		.0851	-.0765
.695	-.2540	.1033		.0625	.0146	.1037	-.2107
.775	-.2412	-.0020		-.0327	-.0795	-.0313	-.2159
.900		-.1699		-.2388	-.1984	-.1099	-.2156

ALPHA ( 5 ) = 11.904 BETA ( 5 ) = 8.309 MACH = .59692 Q = 595.28 P = 2386.8 PW/L = 4.8363  
 SECTION ( 1 ) VERTICAL

Z-BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.2190	-.7066		.6566		-.5491	-.4959
.025	-.7688	-1.1127		.8143		-.5331	-.3747
.050	-.7965	-.9679		.8256		-.5298	-.3639
.150	-.5423	-1.0823		.8625		-.5762	-.3451
.300	-.5098	-.4394		.8105		-.5595	-.3306
.520	-.5108	-.1270		-.2988		-.4035	-.3156
.695	-.3880	-.0365	-.1907	-.0998	-.4192	-.3524	-.2665
.775	-.3405	-.1081	-.0909	-.0217	-.2943	-.2955	-.2808
.900		-.2563	-.2868	-.1487	-.2395	-.2409	-.2754

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBW7) 1 13 AUG 75

REFERENCE DATA

REF = 1076.6800 IN. X0  
REF = .0000 IN. Y0  
REF = 375.0000 IN. Z0  
SCALE = 0.000

RUDDER = -10.000  
BOFLAP = 16.300  
A-ELVN = 4.000  
MACH = 1.400  
SPDRK = 35.000  
L-ELVN = 4.000  
MACH = 1.400

PARAMETRIC DATA

REF = 1076.6800 IN. X0  
REF = .0000 IN. Y0  
REF = 375.0000 IN. Z0  
SCALE = 0.000

DEPENDENT VARIABLE CP

DEPENDENT VARIABLE CP

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SCALE = 0.000

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SCALE = 0.000

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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ALPHA ( 1 ) = 4.023 BETA ( 3 ) = 4.275 MACH = 1.3993 Q = 600.40 P = 438.06 PM/L = 2.9180  
 SECTION 1 INVERTICAL (XEBV47)

## DEPENDENT VARIABLE CP

Z-BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .7697 .6681 .6709 .2995 .2011  
 .025 .0991 -.0691 -.2503 -.1470 .0358  
 .050 .1176 -.0730 -.2996 -.1456 .0422  
 .100 .2180 .0387 -.0325 -.1760 .0676  
 .150 .2151 .0845 .0712 -.1928 -.0037  
 .200 .0509 .0211 .3998 .1150 .3302  
 .250 .0509 .0211 .3998 .1150 .3302  
 .300 .0509 .0211 .3998 .1150 .3302  
 .350 .0509 .0211 .3998 .1150 .3302  
 .400 .0509 .0211 .3998 .1150 .3302  
 .450 .0509 .0211 .3998 .1150 .3302  
 .500 .0509 .0211 .3998 .1150 .3302  
 .550 .0509 .0211 .3998 .1150 .3302  
 .600 .0509 .0211 .3998 .1150 .3302  
 .650 .0509 .0211 .3998 .1150 .3302  
 .700 .0509 .0211 .3998 .1150 .3302  
 .750 .0509 .0211 .3998 .1150 .3302  
 .800 .0509 .0211 .3998 .1150 .3302  
 .850 .0509 .0211 .3998 .1150 .3302  
 .900 .0509 .0211 .3998 .1150 .3302  
 .950 .0509 .0211 .3998 .1150 .3302  
 .1000 .0509 .0211 .3998 .1150 .3302

ALPHA ( 2 ) = -.011 BETA ( 1 ) = -3.871 MACH = 1.3999 Q = 600.31 P = 437.59 PM/L = 2.9188

## SECTION 1 INVERTICAL

Z-BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .7179 .5947 .5742 .7431 .6889  
 .025 .6259 .4505 .3998 .4931 .4815  
 .050 .5490 .4474 .3996 .5433 .5364  
 .100 .4825 .3457 .3249 .5895 .5614  
 .150 .3129 .2533 .3393 .6008 .5562  
 .200 .1645 .1189 .7011 .6669 .5171  
 .250 .1645 .1189 .7011 .6669 .5171  
 .300 .1645 .1189 .7011 .6669 .5171  
 .350 .1645 .1189 .7011 .6669 .5171  
 .400 .1645 .1189 .7011 .6669 .5171  
 .450 .1645 .1189 .7011 .6669 .5171  
 .500 .1645 .1189 .7011 .6669 .5171  
 .550 .1645 .1189 .7011 .6669 .5171  
 .600 .1645 .1189 .7011 .6669 .5171  
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 .700 .1645 .1189 .7011 .6669 .5171  
 .750 .1645 .1189 .7011 .6669 .5171  
 .800 .1645 .1189 .7011 .6669 .5171  
 .850 .1645 .1189 .7011 .6669 .5171  
 .900 .1645 .1189 .7011 .6669 .5171  
 .950 .1645 .1189 .7011 .6669 .5171  
 .1000 .1645 .1189 .7011 .6669 .5171

ALPHA ( 2 ) = -.002 BETA ( 2 ) = .186 MACH = 1.3999 Q = 600.31 P = 437.59 PM/L = 2.9188

## SECTION 1 INVERTICAL

Z-BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .7592 .6739 .6250 .5331 .3624  
 .025 .6739 .6250 .5331 .3624 .0883  
 .050 .6739 .6250 .5331 .3624 .0883  
 .100 .6739 .6250 .5331 .3624 .0883  
 .150 .6739 .6250 .5331 .3624 .0883  
 .200 .6739 .6250 .5331 .3624 .0883  
 .250 .6739 .6250 .5331 .3624 .0883  
 .300 .6739 .6250 .5331 .3624 .0883  
 .350 .6739 .6250 .5331 .3624 .0883  
 .400 .6739 .6250 .5331 .3624 .0883  
 .450 .6739 .6250 .5331 .3624 .0883  
 .500 .6739 .6250 .5331 .3624 .0883  
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 .600 .6739 .6250 .5331 .3624 .0883  
 .650 .6739 .6250 .5331 .3624 .0883  
 .700 .6739 .6250 .5331 .3624 .0883  
 .750 .6739 .6250 .5331 .3624 .0883  
 .800 .6739 .6250 .5331 .3624 .0883  
 .850 .6739 .6250 .5331 .3624 .0883  
 .900 .6739 .6250 .5331 .3624 .0883  
 .950 .6739 .6250 .5331 .3624 .0883  
 .1000 .6739 .6250 .5331 .3624 .0883

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V47)

ALPHA ( 2 ) = -.007 BETA ( 3 ) = 4.251 MACH = 1.3999 Q = 600.31 P = 437.59 RN/L = 2.9189

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6879	.5988	.5602	.2401	.1271
.025	-.0256	-.1320	-.2792	-.2541	-.0669
.050	.0428	-.1283	-.3150	-.2423	-.0563
.100	.1415	-.0283	-.0781	-.2881	-.0294
.300	.1553	.0474	-.0134	-.2310	-.1750
.500	.0007	-.0359	.3293	.3295	-.2813
.685	-.4168	.3182	.4714	.5646	-.1194
.775	-.3719	.2373	.4281	.4473	-.1882
.900	.1107	.3348	.4171	.3354	-.3164

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -3.876 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6255	.5303	.4970	.6019	.5995
.025	.3771	.3632	.3062	.3202	.3782
.050	.4161	.3665	.3079	.3533	.4398
.100	.3443	.2715	.2483	.4989	.4957
.300	.2356	.1909	.2155	.5319	.4995
.500	.0926	.1150	.6255	.6097	.4796
.685	-.4074	.4422	.6286	.5787	-.2278
.775	-.3365	.3519	.5037	.5497	-.3073
.900	.2956	.4385	.4667	.4379	-.3660

ALPHA ( 3 ) = 3.927 BETA ( 2 ) = .191 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6698	.5975	.5330	.4442	.2542
.025	.1526	.0641	-.0567	-.2383	-.1014
.050	.3254	.5527	-.0364	-.2151	-.0905
.100	.1150	.1643	.1082	.1155	-.1125
.300	.1709	.0906	.0617	.4388	.4967
.500	.0199	.0192	.4945	.5578	.4290
.685	-.4123	.3536	-.1653	.5708	-.1788
.775	-.3707	.2624	.4169	.5212	-.2857
.900	.1825	.4185	.3479	.4154	-.3581

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V47)

ALPHA ( 3 ) = 3.930 BETA ( 3 ) = 4.244 MACH = 1.3955 Q = 600.04 P = 440.18 RN/L = 2.9202

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.5873	.5421	.4584 .1892 .0814
.1096	.1569	-.3404 -.4179 -.2311
.0187	.1408	-.3702 -.4115 -.2307
.1362	.0326	-.1435 -.4221 -.2316
.0997	.0175	-.0882 -.2032 -.2658
.0723	.0976	.2842 .4247 .0883
.3898	.2182	-.1899 .3949 .4554
.3745	.1587	.3354 .4147 .2855
.900	.0916	.2578 .3533 .3241
		.2299 -.3339

ALPHA ( 4 ) = 7.863 BETA ( 1 ) = -3.871 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.5992	.4952	.4280 .5055 .5126
.2554	.2903	.2350 .1800 .2877
.3942	.3047	.2350 .2551 .3466
.150	.2100	.1807 .4519 .4270
.1533	.1249	.1432 .4743 .4372
.300	.0439	.5423 .5459 .4376
.520	.0403	.5423 .5671 .5264
.685	.4171	-.1858 .5773 .4932
.775	.3130	.4279 .4951 .4420
.900	.2447	.3721 .4172 .3857
		.2507 -.3878

ALPHA ( 4 ) = 7.994 BETA ( 2 ) = .174 MACH = 1.3954 Q = 600.24 P = 440.41 RN/L = 2.9228

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.6868	.5263	.4440 .3566 .1901
.1885	.0336	-.0884 -.2609 -.1719
.3387	.2021	-.0804 -.2493 -.1719
.2953	.1099	.0552 -.0022 -.1788
.1132	.0341	-.0020 .3639 .4167
.0409	.0446	.3963 .4759 .3837
.1737	.4867	.5121 -.2062
.3241	.4454	.4253 -.3183
.2028	.3542	.2569 -.3884
.1291	.2702	.3502

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.994 BETA ( 3 ) = 4.239 MACH Q = 600.24 P = 440.41 RN/L = 2.9228  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V47)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5605	.5086	.3960	.1367	.0466	
.025	.1029	-.1508	-.3951	-.4470	-.3132		
.050	.1502	-.1641	-.3832	-.4479	-.3063		
.075	.2409	-.0357	-.1671	-.4543	-.3007		
.100	.0460	-.0935	-.1226	-.1881	-.3101		
.125	-.1180	-.1350	.2468	.3501	.2497		
.150	-.4020	.1559	.3313	.3350	.3898		
.175	-.1373	.0937	.2378	.3305	.3415		
.200		.0290	.1852	.2894	.2070		

ALPHA ( 5 ) = 11.873 BETA ( 1 ) = -3.858 MACH Q = 600.34 P = 440.41 RN/L = 2.9245

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6493	.4579	.3504	.4215	.4043	
.025	.3455	.2619	.1862	.1295	.2405		
.050	.4125	.2702	.1852	.1838	.2976		
.075	.2612	.1540	.1295	.2770	.3749		
.100	.0851	.0585	.0840	.4272	.3838		
.125	-.0331	-.0187	.4791	.4869	.3930		
.150	-.1471	.3555	.5072	.4775	-.2479		
.175	.3937	.3991	.4430	.3965	-.3453		
.200	.3311	.2261	.3322	.3431	.2266		

ALPHA ( 5 ) = 11.873 BETA ( 2 ) = .176 MACH Q = 600.34 P = 440.41 RN/L = 2.9245

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B/	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6723	.4913	.3769	.2848	.1450	
.025	.1535	.0067	-.1114	-.2778	-.2390		
.050	.3206	.1718	-.1207	-.2729	-.2258		
.075	.2819	.0791	.0098	-.0339	-.1729		
.100	.0533	-.0116	-.0395	.2841	.3409		
.125	-.0455	-.0849	.3160	.3091	.3282		
.150	-.1434	.2377	.4124	.4119	.4430		
.175	-.3351	.1511	.2622	.3819	.3792		
.200		.0259	.2050	.2997	.2102		

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ALPHA ( 5 ) = 11.868 BETA ( 3 ) = 4.257 MACH = 1.3955 Q = 600.34 P = 440.41 RN/L = 2.9245  
 (XEBW47)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .6258 .4711 .3176 .0558 -.0055  
 .025 .1116 -.1549 -.3558 -.4255 -.3370  
 .050 .1721 -.1377 -.3653 -.4309 -.3321  
 .150 .2243 -.0346 -.1984 -.4323 -.3352  
 .300 .0465 -.0798 -.1535 -.2360 -.3293  
 .520 -.1450 -.1689 .1853 .2477 .1064  
 .685 -.4211 .1110 -.1824 .2505 .3662 -.2146  
 .775 -.3680 .0555 .1720 .2846 .3371 -.2894  
 .900 .1384 .0060 .2246 .2406 .1918 -.4019

ALPHA ( 6 ) = 15.839 BETA ( 1 ) = -3.834 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .7658 .5169 .3331 .3667 .2727  
 .025 .1991 .1327 .1446 .0848 .0930  
 .050 .0444 .2608 .1446 .1311 .1332  
 .150 .2393 .1121 .0856 .1701 .3489  
 .300 .0023 -.0134 .0298 .4007 .3567  
 .520 .0971 .1054 .4437 .4531 .3645  
 .685 .4288 .3746 -.2068 .4803 .4535 -.2563  
 .775 .3683 .3263 .4122 .4305 .3738 .3562  
 .900 .2417 .3424 .3565 .3246 .2136 -.4393

ALPHA ( 6 ) = 15.851 BETA ( 2 ) = .174 MACH = 1.3943 Q = 600.32 P = 441.12 RN/L = 2.9229

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .7000 .4985 .3315 .2099 .0810  
 .025 .0987 -.0242 -.1467 -.3002 -.3123  
 .050 .2867 .1479 -.1542 -.3056 -.3010  
 .150 .2766 .0562 -.0267 -.0423 -.1971  
 .300 .0744 -.0360 -.0773 .2186 .2897  
 .520 .1178 .1232 .2652 .3462 .2685  
 .685 .4554 .2101 .3700 .3582 .2417  
 .775 .4007 .1439 .3166 .3332 .3520  
 .900 .0727 .1881 .2576 .2597 .1818 -.4221

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 6 ) = 15.843 BETA ( 3 ) = 4.283 MACH = 1.3943 Q = 600.32 P = 441.12 RW/L = 2.9229  
(XEBV47)

SECTION 1 VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7619	.5292		.2887		-.0124	-.0690
.025	.1182	-.1604		-.3632		-.4810	-.3814
.050	.2494	-.1197		-.3911		-.4782	-.3800
.150	.2809	.0014		-.2121		-.4265	-.3887
.300	.0721	-.0798		-.1720		-.2327	-.3259
.520	-.1434	-.1862		.1531		-.2285	.1252
.795	-.4603	.1208	-.2023	.2941	.2332	.3235	-.2362
.775	-.3566	.0520	.1484	.2535	.2429	.2870	-.2952
.900		-.0209	.0981	.1886	.2041	.1557	-.4310

DEPENDENT VARIABLE CP



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEB048) ( 13 AUG 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = 85.000  
BDFLAP = 16.300 L-ELVN = 4.000  
R-ELVN = 4.000 MACH = 1.250

ALPHA ( 1 ) = -4.024 BETA ( 1 ) = -3.849 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7670 .6280 .6856 .8044 .7254  
.025 .5922 .4564 .4532 .5477 .4956  
.050 .5997 .4590 .4619 .5751 .5371  
.150 .4809 .3614 .4747 .5730 .5409  
.300 .3278 .2812 .5356 .5817 .5158  
.520 .1604 .2573 .7005 .6344 .4564  
.695 -.4027 .6030 -.1758 .7102 .6816  
.775 -.1725 .4952 .5982 .5734 .4403  
.900 .3994 .4718 .4674 .4253 .2075

ALPHA ( 1 ) = -4.005 BETA ( 2 ) = .189 MACH = 1.2475

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .8160 .6906 .7641 .6178 .5223  
.025 .2790 .0856 -.0452 .1182 .2033  
.050 .4398 .2973 .0634 .1277 .2179  
.150 .3779 .2110 .2163 .1764 .2290  
.300 .2219 .1450 .3972 .4960 .3141  
.520 .0610 .440 .6447 .6242 .4434  
.685 -.4487 .5193 -.1752 .6816 .6454  
.775 -.2878 .4154 .5800 .5707 .5532  
.900 .3262 .4317 .4397 .4090 .2004

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV48)

ALPHA ( 1 ) = -.015 BETA ( 3 ) = .4273 MACH = 1.2475 Q = 600.37 P = 551.11 RN/L = 3.0241

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7481	.6185	.6005	.2231	.1793
.025	.0729	-.1639	-.3515	-.1491	.0549
.050	.1012	-.1540	-.3834	-.1449	.0886
.150	.1983	.0015	-.1673	-.1635	.0745
.300	.1418	.0279	.0191	-.2178	.0101
.520	-.0240	.0154	.4182	-.0828	.4397
.685	-.4913	.3818	.5015	.5227	.4214
.775	-.3810	.3121	.4621	.4637	.5160
.900		.2176	.3477	.3323	.3926

ALPHA ( 2 ) = .012 BETA ( 1 ) = -.3869 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6977	.5562	.5444	.7308	.6535
.025	.5069	.3824	.3375	.4758	.4201
.050	.5252	.3859	.3372	.5111	.4740
.150	.4130	.2859	.2970	.5139	.4881
.300	.2589	.2015	.4640	.5328	.4702
.520	.0887	.1386	.6421	.5854	.4125
.685	-.4578	.5143	.6279	.5228	.3226
.775	-.2802	.4226	.5443	.5268	.4103
.900		.3474	.4304	.3879	.1784

ALPHA ( 2 ) = .020 BETA ( 2 ) = .189 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7574	.6203	.6042	.5012	.4050
.025	.2003	.0202	-.0740	.0359	.1341
.050	.3793	.2272	-.0192	.0389	.1481
.150	.3214	.1415	.1424	.0540	.1634
.300	.1635	.0310	.2244	.4813	.2357
.520	-.0328	.0328	.5787	.5730	.4480
.685	-.4986	.3380	.6198	.5921	.5116
.775	-.3486	.3274	.4877	.5075	.3959
.900		.2513	.3772	.3686	.1639

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV48) RN/L = 3.0247

ALPHA ( 2 ) = .014 BETA ( 3 ) = 4.249 MACH = 1.2460 Q = 599.92 P = 552.04 RN/L = 3.0247

SECTION 1 VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.000	.6817	.5485	.5446	.1428	.0613			
.025	-.0252	-.2037		-.3788	-.3044	-.0655			
.050	.0103	-.2001		-.4190	-.2956	-.0565			
.150	.1371	-.0750		-.1744	-.3188	-.0383			
.300	.0920	-.0223		-.0458	-.2895	-.1614			
.520	-.0767	-.0965		.3364	.3732	.4182			
.685	-.5266	.3101	-.1654	.4267	.4522	.5226	-.1968		
.775	-.4083	.2311	.3925	.4255	.3943	.4473	-.2733		
.900		.1473	.2864	.3472	.2756	.2535	-.4220		

ALPHA ( 3 ) = 3.961 BETA ( 1 ) = -3.873 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION 1 VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.000	.6269	.4976	.4466	.6352	.5668			
.025	.3803	.3029		.2639	.3831	.3503			
.050	.4117	.3135		.2511	.4357	.4074			
.150	.3208	.2184		.1937	.4463	.4315			
.300	.1917	.1303		.2612	.4725	.4207			
.520	.0301	.0549		.5825	.5322	.3720			
.685	-.5224	.4076	-.1820	.5681	.4926	-.3410			
.775	-.3022	.3272	.4822	.4954	.4756	-.3774			
.900		.2768	.3812	.3807	.3476	.1548	-.5063		

ALPHA ( 3 ) = 3.960 BETA ( 2 ) = .185 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262

SECTION 1 VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.000	.7094	.5564	.5004	.3876	.2824			
.025	.1635	-.0076		-.1359	-.1659	.0387			
.050	.3373	.1812		-.1013	-.1638	.0625			
.150	.2754	.0899		.0566	-.0097	.0623			
.300	.1095	.0186		.0306	.4164	.2744			
.520	-.0530	-.0454		.4959	.5002	.4006			
.685	-.5238	.3127	-.1847	.5287	.4836	-.3335			
.775	-.3658	.2214	.4146	.4542	.3610	-.3554			
.900		.1704	.3228	.3258	.1378	-.4830			

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.954 BETA ( 3 ) = 4.240 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0262  
 (XE8V48)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/COV							
.000	.6094	.4934		.4648		.0874	-.0227
.025	-.0540	-.2789		-.3964		-.4141	-.1744
.050	.0165	-.0200		-.4360		-.4105	-.1671
.100	.1092	-.1003		-.2028		-.4311	-.1442
.300	.0419	-.0570		-.1320		-.3258	-.3202
.500	-.1504	-.1714		-.2881		.4693	-.2145
.685	-.4574	-.2072	-.1825	.3940	.3945	.4603	-.2454
.775	-.4619	.1370	.3247	.3766	.2435	.3696	-.3280
.900		.0742	.2333	.2958	.2371	.1707	-.4533

ALPHA ( 4 ) = 7.898 BETA ( 1 ) = -3.868 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/COV							
.000	.6486	.4554		.3722		.5381	.4672
.025	.3297	.2332		.1772		.2877	.2747
.050	.2823	.2573		.1801		.3495	.3316
.100	.2693	.1584		.1253		.3819	.3729
.300	.1135	.0616		.1414		.4128	.3686
.500	-.0189	-.0092		.5242		.4737	.3323
.685	-.5215	.2548	-.1974	.5351	.5070	.4466	-.3464
.775	.3825	.2622	.4173	.4390	.4204	.3410	-.4090
.900		.2112	.3290	.3359	.3004	.1274	-.5088

ALPHA ( 4 ) = 8.000 BETA ( 2 ) = .178 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/COV							
.000	.6973	.4683		.4119		.2939	.1331
.025	.1735	-.0403		-.1735		-.3458	-.0591
.050	.3201	.1436		-.1549		-.3298	-.0435
.100	.2395	.0431		-.0165		.0245	-.1340
.300	.0505	-.0360		-.0531		.3531	.3705
.500	-.1116	-.1050		.4102		.4395	.3190
.685	-.5471	.2517	-.1910	.4810	.4641	.4439	-.3052
.775	-.3955	.1556	.3325	.4036	.4010	.3302	-.3893
.900		.0953	.2593	.3033	.2837	.1145	-.4937

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AMES 11-073(0A148) -140A/8/C/R ORB VERTICAL (XEBV48)

ALPHA ( 4 ) = 9.003 BETA ( 3 ) = 4.235 MACH = 1.2462 Q = 600.16 P = 552.05 RN/L = 3.0273

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6364	.4632	.3512	.0273	-.0811
.025	.0794	-.2411	-.4299	-.4717	-.2473
.050	.1313	-.2132	-.4691	-.4698	-.2407
.150	.660	-.0802	-.2355	-.4479	-.2343
.300	-.0228	-.1218	-.1737	-.3459	-.4248
.520	-.1919	-.2167	.2618	.3908	.0431
.685	-.4765	.1429	.3734	.3935	-.2478
.775	-.4127	.0608	.3255	.3082	-.3700
.900		.0050	.2427	.2257	-.4836

ALPHA ( 5 ) = 11.933 BETA ( 1 ) = -3.854 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6675	.4304	.3107	.4366	.4212
.025	.2700	.1875	.1242	.2043	.2094
.050	.3494	.2088	.1242	.2685	.2630
.150	.2162	.1042	.0883	.3332	.3225
.300	.0418	.0902	.0636	.3624	.3211
.520	-.0777	-.0539	.4746	.4224	.2968
.685	-.5284	.3494	.4901	.4550	.3985
.775	-.3936	.2471	.3967	.3752	.3054
.900		.1500	.2989	.2597	.1058

ALPHA ( 5 ) = 11.941 BETA ( 2 ) = .176 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6680	.4480	.3436	.2171	.0419
.025	.1551	-.0568	-.2018	-.3930	-.1814
.050	.2390	.1146	-.1905	-.3885	-.1674
.150	.2227	.0064	-.0597	-.0547	-.2486
.300	.0213	-.0712	-.1095	.2886	.3095
.520	-.1472	-.1368	.3377	.3861	.2772
.685	-.5537	.2134	.4185	.4010	.3990
.775	-.4544	.1144	.2695	.3509	.2932
.900		.0485	.2574	.2419	.0922

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.936 BETA ( 3 ) = 4.253 MACH = 1.2450 Q = 599.95 P = 552.98 RN/L = 3.0281  
(XEB748)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6633	.4300	.2805	-.0341	-.1240
.025	.0665	-.2468	-.4435	-.4674	-.3511
.050	.1334	-.2229	-.4752	-.4593	-.3438
.100	.1643	-.1012	-.2763	-.4778	-.3183
.150	-.0352	-.1493	-.1991	-.4440	-.4557
.200	-.2159	-.2466	.2078	.3062	.1685
.250	-.5251	.1029	.3206	.3264	-.2626
.300	-.4176	.0244	.2727	.2446	-.2677
			.1991	.2586	
			.1213	.1905	
				.0781	-.4937

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-072-1 )

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AMES 11-073(0A148) -140A/B/C/P ORB VERTICAL

(XEBV49) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDRBK = 85.000  
 BOFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = 4.000 MACH = 1.100

ALPHA ( 1 ) = -4.022 BETA ( 1 ) = -3.848 MACH = 1.1001 Q = 600.26 P = 708.59 RN/L = 3.1930

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.6892	.5570	.7029	.7466	.6615
.025	.5278	.3703	.4419	.4280	.3548
.050	.5195	.3777	.4551	.4749	.4131
.150	.3837	.2931	.4355	.4714	.4318
.300	.2352	.2271	.4584	.4801	.4020
.520	.0726	.3115	.6043	.5269	.3241
.685	-.5075	.5265	.6173	.5849	-.3882
.775	-.1237	.4228	.4948	.4636	-.4609
.900		.2876	.3444	.2598	-.5398

ALPHA ( 1 ) = -4.022 BETA ( 2 ) = .189 MACH = 1.1001

Q = 600.26 P = 708.59 RN/L = 3.1934

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

DEPENDENT VARIABLE CP	
.000	.7473
.025	.6283
.050	.2506
.150	.3737
.300	.2839
.520	.1320
.685	.1086
.775	.2201
.900	.2201

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV49)

ALPHA ( 1 ) = -4.029 BETA ( 3 ) = 4.271 MACH = 1.1001 Q = 600.26 P = 708.59 RN/L = 3.1930

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6745	.5538	.4870	.1501	.1245
.025	.0243	-.3196	-.5193	-.1446	-.0074
.050	.0446	-.2322	-.5204	-.1411	.0096
.150	.1337	-.0440	-.2390	-.1536	.0108
.300	.0403	-.0535	-.0198	-.2173	-.0461
.450	.0255	-.0128	.3785	-.1908	.4909
.600	-.5712	.3109	-.2187	.4653	-.0257
.750	-.3319	.2347	.3905	.4129	.1786
.900		.1459	.2588	.2286	.2883

ALPHA ( 2 ) = .025 BETA ( 1 ) = -3.866 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION ( 2 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6415	.5345	.5814	.6765	.5898
.025	.4556	.2862	.4430	.3941	.3134
.050	.4152	.3008	.3577	.4237	.3717
.150	.3210	.2045	.3505	.4273	.3884
.300	.1563	.0216	.4034	.4367	.3615
.450	-.0684	.1291	.5609	.4834	.2872
.600	-.5902	.1729	-.1905	.5394	.4051
.750	-.1143	.2913	.4590	.4247	.4078
.900		.2597	.3221	.2753	.4732

ALPHA ( 3 ) = .030 BETA ( 2 ) = .166 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951

SECTION ( 3 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7075	.6570	.6432	.4682	.3682
.025	.4350	-.0695	-.2106	-.0243	.0400
.050	.3883	.0456	-.0434	-.0154	.0525
.150	.2307	.0688	.1457	.0537	.0716
.300	.0344	.0055	.2732	.3501	.1782
.450	-.0612	.0799	.6074	.4680	.2733
.600	-.5902	.1729	.5423	.4998	.4092
.750	-.1143	.2913	.4287	.3989	.2701
.900		.2597	.2873	.2440	.0211



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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .026 BETA ( 3 ) = 4.247 MACH = 1.1003 Q = 600.53 P = 708.60 RN/L = 3.1951  
 SECTION ( 1 ) INVERTICAL (XEB449)

## DEPENDENT VARIABLE CP

Z/B/ .1500 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6256 .4784 .4428 .0352 .0052  
 .025 .0665 .3502 .5551 .2788 .0768  
 .050 .0359 .3049 .5546 .2746 .0552  
 .100 .0819 .1231 .3005 .3086 .0559  
 .200 .0183 .1127 .1125 .4107 .2203  
 .300 .1807 .1248 .3232 .1557 .5579  
 .400 .5509 .2633 .3888 .3912 .4569  
 .500 .3557 .1980 .3379 .3572 .6122  
 .600 .1325 .2188 .2498 .1680 .1727 .6301

ALPHA ( 3 ) = 3.995 BETA ( 1 ) = -3.867 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

## SECTION ( 1 ) INVERTICAL

## DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6045 .4394 .4259 .5937 .5061  
 .025 .3736 .2116 .1999 .3231 .2552  
 .050 .3703 .2319 .2071 .3718 .3190  
 .100 .2551 .1327 .2407 .3715 .3374  
 .200 .1051 .0454 .3283 .3864 .3178  
 .300 .0631 .0305 .5083 .4381 .2486  
 .400 .5025 .4105 .5236 .4882 .3752  
 .500 .2778 .3144 .4153 .3793 .4181  
 .600 .2865 .2747 .2296 .2485 .4647  
 .700 .2305 .2747 .2296 .2485 .4647  
 .800 .2305 .2747 .2296 .2485 .4647  
 .900 .2305 .2747 .2296 .2485 .4647

ALPHA ( 3 ) = 3.996 BETA ( 2 ) = .185 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

## SECTION ( 1 ) INVERTICAL

## DEPENDENT VARIABLE CP

Z/B/ .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6771 .4937 .5417 .3816 .2659  
 .025 .1396 .1094 .2381 .0792 .0085  
 .050 .2902 .1015 .0381 .0648 .0068  
 .100 .1990 .0052 .0207 .0074 .0259  
 .200 .0177 .0591 .2159 .3285 .1256  
 .300 .1129 .0329 .4564 .4213 .2564  
 .400 .5509 .2633 .3888 .3912 .4569  
 .500 .3557 .1980 .3379 .3572 .6122  
 .600 .1325 .2188 .2498 .1680 .1727 .6301  
 .700 .2305 .2747 .2296 .2485 .4647  
 .800 .2305 .2747 .2296 .2485 .4647  
 .900 .2305 .2747 .2296 .2485 .4647

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV49)

ALPHA ( 3 ) = 3.999 BETA ( 3 ) = 4.239 MACH = 1.1004 Q = 600.49 P = 708.37 RN/L = 3.1949

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV  
 .000 .5331 .4277 .3936  
 .025 .1085 .3730 .5610  
 .050 .0384 .3343 .5874  
 .150 .0463 .1744 .3591  
 .300 .0611 .1759 .3591  
 .520 .1552 .2434 .3047  
 .695 .1513 .1937 .3735  
 .775 .1393E .1212 .2947  
 .900 .0378 .0378 .2098

ALPHA ( 4 ) = 7.342 BETA ( 1 ) = -3.865 MACH = 1.1006 Q = 600.80 P = 708.61 RN/L = 3.1953

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV  
 .000 .6133 .3831 .3100  
 .025 .3337 .1462 .0954  
 .050 .3575 .1651 .0987  
 .150 .2115 .0605 .0742  
 .300 .0223 .0337 .3104  
 .520 .1252 .0818 .4745  
 .695 .6381 .3477 .4910  
 .775 .3315 .2772 .3982  
 .900 .2288 .2840 .2586

ALPHA ( 4 ) = 8.042 BETA ( 2 ) = .178 MACH = 1.1006 Q = 600.80 P = 708.61 RN/L = 3.1953

## SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .6455 .4338 .3857  
 .025 .1238 .1453 .2651  
 .050 .2596 .0548 .1972  
 .150 .1530 .0488 .0552  
 .300 .0339 .1250 .0730  
 .520 .1974 .1710 .3991  
 .695 .5880 .2217 .4428  
 .775 .3808 .1487 .3278  
 .900 .1412 .2110 .1749

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## TABULATED PRESSURE DATA - 08148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.044 BETA ( 3 ) = 4.232 MACH = 1.1006 Q = 600.80 P = 708.61 RVL = 3.1953  
 (XEBV49)

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6033	.3719		.3288		-.1429	-.2019
.025	-.0432	-.3832		-.5731		-.5245	-.2553
.050	.0215	-.3280		-.6154		-.5271	-.2458
.150	.0690	-.2005		-.3805		-.5292	-.2406
.300	-.1311	-.2345		-.2472		-.5531	-.5447
.520	-.3100	-.3169		.2375		.3715	-.1587
.685	-.5423	.1082	-.1833	.3284	.2979	.3242	-.3370
.775	-.4266	.0289	.2289	.2797	.2297	.2227	-.4737
.900		.0228	.1555	.1705	.1077	-.0034	-.5780

ALPHA ( 5 ) = 11.980 BETA ( 1 ) = -3.845 MACH = 1.0980 Q = 599.65 P = 710.48 RVL = 3.1930

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6387	.3718		.2373		.4643	.4077
.025	.1788	.0865		.0456		.2707	.2499
.050	.2733	.1186		.0515		.3115	.2820
.150	.1384	.0135		.0142		.3214	.2876
.300	-.0427	-.0831		.2337		.3328	.2557
.520	-.1579	-.0831		.4554		.3677	.1885
.685	-.6286	.3180	-.1832	.4691	.4162	.3266	-.4310
.775	-.3686	.2384	.3926	.3712	.3304	.2068	-.5011
.900		.2320	.2798	.2403	.1889	-.0222	-.5912

ALPHA ( 5 ) = 11.980 BETA ( 2 ) = .181 MACH = 1.0980 Q = 599.65 P = 710.48 RVL = 3.1930

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6299	.3945		.2977		.1268	.0266
.025	.0947	-.1847		-.3177		-.2632	-.1094
.050	.2336	.0141		-.2783		-.2623	-.0867
.150	.1289	-.0917		-.1243		-.2186	-.1264
.300	-.0726	-.1677		-.1243		.2514	.0884
.520	-.2486	-.2236		.3420		.3262	.2189
.685	-.6104	.1521	-.1566	.3991	.3574	.3110	-.4445
.775	-.4174	.0721	.2812	.3059	.2847	.1838	-.4976
.900		.1066	.1838	.1882	.1530	-.0494	-.5663

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TRANSLATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV49)

ALPHA 1 = 11.982 BETA ( 3 ) = 4.250 MACH = 1.0980 Q = 599.63 P = 710.48 RAVL = 3.1930

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4760 .6020 .6970 .8390 .9250

X/CV

.000	.6325	.3602	.2673	.2363	.3001
.025	-.0108	-.4002	-.5965	-.5906	-.3424
.050	.0791	-.3404	-.6331	-.5856	-.3337
.100	.0534	-.2139	-.4255	-.5625	-.3235
.150	-.1552	-.2635	-.2988	-.6546	-.5920
.200	-.3415	-.3564	.1939	.3066	-.0822
.250	-.5867	.0564	-.1791	.2317	-.3906
.300	-.7543	-.0226	.1805	.1755	-.5220
.350		-.0301	.1214	.0892	-.6026

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV50) ( 13 AUG 75 )

REFERENCE DATA

SREF = 7590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 65.000  
BOFLAP = 16.300 L-ELVN = 4.000  
R-ELVN = 4.000 MACH = .900

ALPHA ( 1 ) = -4.039 BETA ( 1 ) = -3.850 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5087	.3971	.6079	.6203	.5264	
.025	.3773	.2649	.3435	.2871	.1855		
.050	.3631	.2651	.3504	.3237	.2595		
.150	.2282	.1798	.3185	.3091	.2578		
.300	.0988	.1076	.3188	.3067	.2129		
.520	-.1071	.2356	.4530	.3511	.1171		
.655	-.2351	.4160	.4558	.4186	.2464		
.775	-.2472	.2842	.3129	.2718	.0949		
.920		.1387	.1577	.0740	-.1058		

ALPHA ( 1 ) = -4.026 BETA ( 2 ) = .188 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5763

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5796	.5089	.5912	.3994	.2969	
.025	.0448	-.2294	-.3740	-.2052	-.1853		
.050	.1816	.0409	-.1776	-.1865	-.1804		
.150	.0865	-.0207	.1071	-.0329	-.0770		
.300	-.0372	-.0469	.1837	.2045	.1045		
.520	-.2107	.1436	.3978	.3058	.0833		
.685	-.2902	.3671	-.2317	.3697	.2417		
.775	-.2563	.2177	.2946	.2375	.3447		
.900		.0751	.1106	.0362	-.1169		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073- )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV50)

ALPHA ( 1 ) = -4.037 BETA ( 3 ) = 4.267 MACH = .89970 P = 599.92 RN/L = 1058.7 RN/L = 3.5783

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.4876	.3570	.2361	.0064	-.0281
.025	-.1871	-.6595	-.6293	-.2469	-.1830
.050	-.1307	-.5863	-.6238	-.2443	-.1587
.100	-.1262	-.3090	-.6340	-.2408	-.1316
.150	-.1972	-.2742	-.4123	-.2811	-.1564
.200	-.3365	-.3338	.3380	-.3441	-.3755
.250	-.3971	.2507	.4123	.1387	-.3293
.300	-.2421	.1406	.2828	.2262	-.3107
.350	-.0042	-.0042	.0972	.1540	-.2156
.400					-.4560

ALPHA ( 2 ) = .032 BETA ( 1 ) = -3.867 MACH = .89853 Q = 599.04 P = 1060.0 RN/L = 3.5758

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.4432	.3117	.5370	.5625	.4605
.025	.3003	.2030	.3239	.2737	.1697
.050	.2909	.2042	.3281	.3023	.2351
.100	.1625	.1293	.2956	.2810	.2274
.150	.0456	.0732	.2972	.2770	.1846
.200	-.1435	.2167	.4246	.3138	.0889
.250	-.2408	.3923	.4213	.2121	-.3505
.300	-.2503	.2696	.2838	.2435	-.3548
.350		.1318	.1102	.0479	-.3805

ALPHA ( 2 ) = .035 BETA ( 2 ) = .184 MACH = .89853 Q = 599.04 P = 1060.0 RN/L = 3.5758

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/COV

.000	.5332	.4258	.5278	.3464	.2265
.025	-.0156	-.2763	-.3806	-.2011	-.2106
.050	.1196	.0245	-.1912	-.1874	-.2123
.100	.0208	-.0724	.0903	-.0277	-.1006
.150	-.1044	-.0832	.1549	.1829	.1021
.200	-.2466	.1325	.3627	.2783	.0530
.250	-.2801	.3412	.3829	.2096	-.3461
.300	-.2412	.2399	.2683	.2067	-.3676
.350		.0577	.0850	.0131	-.3841

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .028 BETA ( 3 ) = 4.248 MACH = .89853 Q = 599.04 P = 1050.0 RN/L = 3.5758  
 AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV50)

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.4320	.2920	.1531	-.0586	-.1046	
.025	-.2679	-.7039	-.6466	-.2510	-.1677	
.050	-.1850	-.6386	-.6451	-.2472	-.1552	
.150	-.1732	-.3540	-.6763	-.2524	-.1308	
.300	-.2629	-.3245	-.5149	-.3317	-.1703	
.520	-.4103	.0381	.3353	-.4297	-.4407	
.685	-.3488	.2474	.3627	.3195	.3767	
.775	-.2520	.1378	.2324	.3072	.3060	
.900		-.0068	.0428	.1023	-.1237	-.4639

ALPHA ( 3 ) = 3.999 BETA ( 1 ) = -3.868 MACH = .90073 Q = 600.62 P = 1057.6 RN/L = 3.5790

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X, Y

.000	.3872	.2542	.4654	.5036	.3993	
.025	.2372	.1557	.3226	.2664	.1648	
.050	.2275	.1607	.3136	.2836	.2106	
.150	.1066	.0886	.2777	.2810	.1974	
.300	.0043	.0426	.2779	.2484	.1544	
.520	-.1658	.2084	.3919	.2725	.0545	
.695	-.2454	.3917	.3877	.3391	.1797	
.775	-.2494	.2748	.2591	.2078	.0343	-.3644
.900		-.1411	.0909	.0202	-.1613	-.3847

ALPHA ( 3 ) = 4.003 BETA ( 2 ) = .184 MACH = .90073 Q = 600.62 P = 1057.6 RN/L = 3.5790

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.4994	.3777	.4708	.2805	.1571	
.025	-.0847	.3259	-.3623	-.2071	-.2437	
.050	.0703	-.0706	-.1767	-.1673	-.2368	
.150	-.0310	-.1053	.0704	-.0218	-.1090	
.300	-.1499	-.1117	.1416	.1515	.1005	
.520	-.2695	.1264	.3263	.2378	.0172	
.685	-.2757	.3323	.3416	.2914	.1853	-.3612
.775	-.2384	.1957	.2154	.1737	.0194	-.3822
.900		.0641	.0367	-.0149	-.1838	-.4057

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.005 BETA ( 3 ) = 4.239 MACH = .90073 Q = 600.62 P = 1057.6 RV/L = 3.5790  
 (XEBV50)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3769 .2369 .0629 .1332 .1834  
 .025 .3024 .2413 .2629 .2634 .1739  
 .050 .2113 .6978 .6296 .2551 .1739  
 .150 .1838 .4152 .6170 .2704 .1557  
 .300 .3226 .3698 .5603 .3579 .2087  
 .520 .4758 .0489 .2956 .4554 .4132  
 .665 .2961 .2497 .3091 .2989 .3689 .4274  
 .775 .2717 .1354 .1894 .2489 .2922 .4527  
 .900 .0011 .0165 .0223 .0565 .0590 .4921

ALPHA ( 4 ) = 8.040 BETA ( 1 ) = -3.870 MACH = .89937 Q = 599.61 P = 1059.0 RV/L = 3.5771

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3513 .1997 .4055 .4508 .3378  
 .025 .1787 .1221 .2960 .2567 .1539  
 .050 .1735 .1297 .2684 .2622 .1861  
 .150 .0590 .0569 .2603 .2354 .1686  
 .300 .0477 .0100 .2593 .2203 .1285  
 .520 .1905 .1874 .3690 .2399 .0185  
 .665 .2657 .3887 .3052 .1528 .3471  
 .775 .2492 .2815 .2336 .1820 .0076 .3822  
 .900 .1529 .1166 .0609 .0017 .1952 .4064

ALPHA ( 4 ) = 8.045 BETA ( 2 ) = .178 MACH = .89937 Q = 599.61 P = 1059.0 RV/L = 3.5771

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .4607 .3015 .4193 .2211 .0904  
 .025 .1209 .3284 .3588 .1962 .2507  
 .050 .0327 .1026 .1642 .1851 .2321  
 .150 .0614 .1360 .0501 .0433 .1399  
 .300 .1793 .1387 .1167 .1302 .0682  
 .520 .2970 .1037 .3034 .1962 .0292  
 .665 .2753 .3188 .3130 .2522 .1445 .374  
 .775 .2590 .2048 .1851 .1410 .0190 .3937  
 .900 .0768 .0622 .0147 .0442 .2151 .4183



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.043 BETA ( 3 ) = 4.236 MACH = .99937 Q = 599.61 P = 1059.0 RV/L = 3.5771  
(XEBV50)

SECTION 1 VERTICAL

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3346	.1884	.0031				
.025	-.2967	-.7374	-.6386	-.2170	-.2692		
.050	-.1878	-.6871	-.6521	-.2950	-.1969		
.150	-.1800	-.4312	-.6540	-.2870	-.1757		
.300	-.3268	-.3799	-.4922	-.3063	-.1917		
.520	-.4732	-.0208	.2656	-.4143	-.2597		
.685	-.3221	-.2233	.2707	-.4584	-.5765		
.775	-.2744	.1161	.1672	-.3268	-.4273		
.900		-.0005	.0036	-.1948	-.4568		
				-.0075	.0058	-.4868	

ALPHA ( 5 ) = 11.980 BETA ( 1 ) = -3.854 MACH = .89910

SECTION 1 VERTICAL

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3615	.1657	.3327				
.025	-.0028	-.0133	.2749	.3904	.2793		
.050	.0468	.0214	.2605	.2501	.1543		
.150	-.0378	-.0239	.2367	.2487	.1728		
.300	-.1474	-.0457	.2308	.2156	.1413		
.520	-.2521	.1676	.3471	.1996	.0965		
.685	-.3040	.3854	.3391	.2206	-.0148		
.775	-.2703	.2636	.2935	.2747	.1401	-.3869	
.900		.1650	.0447	.1573	-.0093	-.4029	
				-.0230	-.2210	-.4374	

ALPHA ( 5 ) = 11.989 BETA ( 2 ) = .180 MACH = .89910

SECTION 1 VERTICAL

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4006	.2532	.3779				
.025	-.0543	-.3414	-.3830	.1808	.0418		
.050	.0216	-.0719	-.1770	-.2205	-.2666		
.150	.0635	-.1046	.0267	-.2077	-.2352		
.300	-.1987	-.1845	.0989	-.0328	-.1328		
.520	-.3268	.0719	.2818	.1116	.0434		
.685	-.3145	.2603	.2908	.1789	-.0480		
.775	-.2542	.1744	.1678	.2367	.1300	-.3829	
.900		.0515	.0028	.1249	-.0293	-.3904	
				-.0548	-.2371	-.4306	

Q = 599.28 P = 1059.0 RV/L = 3.5742

Q = 599.28 P = 1059.0 RV/L = 3.5742

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV50)

ALPHA ( S ) = 11.979 BETA ( 3 ) = 4.260 MACH = .89910 Q = 599.28 P = 1059.0 RV/L = 3.5742

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3618	.1658		-.0568	-.3225	-.3704	
.025	-.1390	-.6138		-.7333	-.3654	-.2581	
.050	-.0515	-.5178		-.7413	-.3758	-.2368	
.150	-.1281	-.3712		-.7007	-.3744	-.2489	
.300	-.2870	-.3658		-.2921	-.4600	-.3201	
.450	-.4531	-.0527		.2123	-.4201	-.6023	
.600	-.3571	.1450	-.2419	.2250	-.1966	-.4117	
.750	-.2572	.0575	.1217	.1205	-.0320	-.4277	
.900		-.0425	-.0429	-.0355	-.0462	-.0108	-.4454

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV51) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDRK = 85.000  
BOFLAP = 16.300 L-ELVN = 4.000  
R-ELVN = 4.000 MACH = .600

ALPHA ( 1 ) = -3.976 BETA ( 1 ) = -7.854 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	1580	3170	4590	6020	6970	8390	9250
K/CV	.000	.0702	-10.12	.1257	.4176	.3516	
.025	.4941	.4571	.5314	.5314	.4433	.3672	
.050	.4434	.3993	.4760	.4760	.4126	.3431	
.100	.2912	.2731	.3741	.3741	.3254	.2458	
.200	.1562	.1729	.3178	.3178	.2587	.1652	
.300	.1107	.2438	.3689	.3689	.2556	.0284	
.400	.0520	.3519	.1976	.3361	.1538	.3285	
.500	.0275	.2376	.2426	.3513	.1777	.3409	
.600	.0175	.0467	.0124	.2100	.0436	.3409	
.700	.0046	.0067	.0043	.0043	.0043	.3579	
.800	.0000	.0000	.0000	.0000	.0000	.0000	

ALPHA ( 2 ) = -3.953 BETA ( 2 ) = -3.844 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

SECTION 2 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	1580	3170	4590	6020	6970	8390	9250
K/CV	.000	.4061	.3420	.5054	.5403	.4931	
.025	.3186	.2454	.2853	.2853	.2094	.0939	
.050	.3026	.2285	.2846	.2846	.2267	.1825	
.100	.1770	.1391	.2393	.2393	.2034	.1531	
.200	.0542	.0568	.2113	.2113	.1987	.1048	
.300	.0167	.1751	.3276	.3276	.2293	.0090	
.400	.0033	.2926	.1932	.3031	.1271	.3606	
.500	.0000	.1815	.1938	.1626	.1374	.0096	
.600	.0000	.0012	.0216	.0418	.0783	.1236	
.700	.0000	.0000	.0000	.0000	.0000	.0000	
.800	.0000	.0000	.0000	.0000	.0000	.0000	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBVS1)

ALPHA ( 1 ) = -3.956 BETA ( 3 ) = .188 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION 1 ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5187	.4890	.4938	.4938	.2842	.2354	
.025	-.0335	-.3473	-.4505	-.4505	-.2392	-.5178	
.050	.1014	-.0095	-.0757	-.0757	-.1867	-.3980	
.150	.0368	-.0332	.0402	.0402	-.0182	-.0429	
.300	-.0672	-.0554	.0975	.0975	.0871	.0116	
.500	-.2638	.1070	.2634	.2634	.1736	-.0269	
.695	-.3176	.2477	-.1966	.2726	.2489	.1112	-.3633
.775	-.2828	.1210	.1407	.1181	.0954	-.0074	-.3664
.900		-.0513	-.0791	-.0923	-.1211	-.1455	-.3848

ALPHA ( 1 ) = -3.983 BETA ( 4 ) = 4.269 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION 1 ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3298	.1495	.0480	.0480	-.2522	-.1862	
.025	-.3190	-.7328	-.4694	-.4694	-.4699	-.4178	
.050	-.2617	-.4423	-.4449	-.4449	-.4541	-.3827	
.150	-.2301	-.3549	-.3461	-.3461	-.4338	-.3346	
.300	-.1973	-.2339	-.1761	-.1761	-.4274	-.3124	
.500	-.3373	.0066	.0572	.0572	-.0729	-.3381	
.695	-.3388	.1391	-.1931	.0813	.1516	.0040	-.3815
.775	-.2849	.0311	.0913	.0152	.0218	.0252	-.4129
.900		-.1280	-.1232	-.1539	-.1648	-.0497	-.4502

ALPHA ( 1 ) = -3.980 BETA ( 5 ) = 8.339 MACH = .59542 Q = 592.57 P = 2387.9 RN/L = 4.8104

## SECTION 1 ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0864	-.4965	-.6148	-.6148	-.5403	-.4984	
.025	-.5945	-.11434	-.8640	-.8640	-.5035	-.4037	
.050	-.5784	-.8720	-.8740	-.8740	-.4978	-.3731	
.150	-.7814	-.8172	-.8729	-.8729	-.5120	-.3444	
.300	-.3397	-.5004	-.8757	-.8757	-.5341	-.3561	
.500	-.3693	-.1879	-.5044	-.5044	-.5535	-.4350	
.695	-.3427	-.0591	-.1991	-.2642	-.5973	-.5274	-.4682
.775	-.3093	-.0412	.0922	.0085	-.4714	-.5217	-.4685
.900		-.1854	-.1231	.0129	-.3344	-.4638	-.4777

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBVS1)

ALPHA ( 2 ) = .050 BETA ( 1 ) = -7.891 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION 1 ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .0236 -.1697 .0202 .3340 .2811  
 .025 .4433 .4112 .5018 .4102 .3403  
 .050 .3991 .3614 .4499 .3862 .3177  
 .150 .2530 .2412 .3514 .2962 .2188  
 .300 .1176 .1439 .2865 .2469 .1400  
 .500 -.1138 .2326 .3328 .2265 .0025  
 .685 -.2802 .3394 -.1761 .2811 .1289 .3360  
 .775 -.2874 .2295 .1824 .1449 .0207 .3525  
 .900 .0428 -.0036 -.0346 -.0712 -.1185 -.3508

ALPHA ( 2 ) = .070 BETA ( 2 ) = -3.863 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION 1 ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3425 .2750 .4334 .4745 .4137  
 .025 .2749 .2119 .2648 .2003 .0972  
 .050 .2532 .2039 .2601 .2152 .1514  
 .150 .1319 .1054 .2117 .1798 .1250  
 .300 .0197 .0402 .1890 .1671 .0736  
 .500 -.1959 .1633 .2974 .1937 .0231  
 .685 -.2651 .2940 .2832 .2494 .0996 .3554  
 .775 -.2766 .1787 .1354 .1094 .0164 .3696  
 .900 -.0040 -.0445 -.0657 -.1016 -.1521 .3993

ALPHA ( 2 ) = .075 BETA ( 3 ) = .185 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION 1 ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4727 .4366 .4440 .2343 .1746  
 .025 .0733 .3560 .4012 .2441 .4942  
 .050 .0581 .0375 .1046 .2049 .3480  
 .150 .0066 .0695 .0274 .0382 .0753  
 .300 .0975 .0765 .0784 .0770 .0080  
 .500 -.2761 .0929 .2369 .1575 .0517  
 .685 -.3217 .2781 .2495 .2093 .0879 .3572  
 .775 -.2768 .1164 .0898 .0657 .0364 .3739  
 .900 .0423 .0931 .1100 .1433 .1679 .4070

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R OFB VERTICAL

(XEBV51)

ALPHA ( 2 ) = .070 BETA ( 4 ) = 4.248 MACH = .59620 Q = 593.99 P = 2387.5 RN/L = 4.8200

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( 8 ) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X ( 2 )

.000	.2223	.0960	-.0171	-.2850	-.2499
.025	-.3657	-.6323	-.5216	-.4544	-.3742
.050	-.3112	-.4515	-.4992	-.4453	-.3349
.100	-.2578	-.4117	-.4131	-.4376	-.3193
.200	-.2249	-.2425	-.2759	-.4574	-.3179
.300	-.2374	-.0241	.0860	-.0836	-.3787
.400	-.2332	.1329	-.1763	.0942	-.3928
.500	-.2364	.2316	.0702	-.0367	-.4135
.600	-.2384	.1333	-.1440	-.1322	-.0637
.700					-.4517

ALPHA ( 3 ) = .066

BETA ( 5 ) =

8.300 MACH = .59620

RN/L = 4.8200

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( 8 ) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X ( 2 )

.000	-.1276	-.5333	-.6768	-.5604	-.5294
.025	-.0310	-.1672	-.8699	-.1921	-.3656
.050	-.0302	-.3246	-.8766	-.4853	-.3569
.100	-.0182	-.3430	-.8940	-.3320	-.3460
.200	-.0319	-.4572	-.9414	-.5240	-.7168
.300	-.4059	-.1431	-.4121	-.5450	-.4276
.400	-.3423	.0466	-.1325	-.5171	-.4356
.500	-.3018	.0120	.1019	-.4371	-.4245
.600	-.1856	.1557	.0178	-.2447	-.4299

ALPHA ( 3 ) = .066

BETA ( 1 ) =

-7.901 MACH = .59564

RN/L = 4.8166

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( 8 ) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X ( 2 )

.000	-.0385	-.2538	-.0825	.2588	.2218
.025	.4073	.3710	.4561	.3860	.3187
.050	.3563	.3232	.4134	.3561	.2926
.100	.2152	.2105	.3261	.2730	.1978
.200	.0949	.1137	.2602	.2225	.1214
.300	-.1471	.3129	.3058	.1991	-.0119
.400	-.2221	.2230	.2850	.1132	-.3378
.500	-.2234	.2017	.1488	.1144	-.3399
.600	-.2234	.0312	-.0617	-.0976	-.3416

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORR VERTICAL

(XEBV51)

ALPHA ( 3 ) = 4.027 BETA ( 2 ) = -3.864 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3059	.2103	.3672	.4145	.3425
.025	.2270	.1830	.2488	.1840	.0811
.050	.2085	.1690	.2360	.1923	.1243
.075	.1917	.1545	.2109	.1585	.0984
.100	.1763	.1394	.1842	.1410	.0500
.125	.1617	.1219	.1625	.1247	-.0384
.150	.1484	.1049	.1416	.1025	-.3389
.175	.1359	.0812	.1182	.0791	-.3578
.200	.1241	.0575	.0940	-.1192	-.3863

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

ALPHA ( 3 ) = 4.029 BETA ( 3 ) = .191 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4380	.3973	.3923	.1819	.1332
.025	.4033	.3742	.3919	.2539	-.4667
.050	.3868	.3772	.4201	-.2248	-.3244
.075	.3832	.3572	.4085	-.0402	-.0932
.100	.3878	.3362	.4067	.0470	-.0128
.125	.3916	.3137	.4117	.1219	-.0765
.150	.3949	.2914	.4139	.1739	-.0764
.175	.3963	.2691	.4102	.0323	-.0630
.200	.3963	.2467	.4108	-.1681	-.1886

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

ALPHA ( 3 ) = 4.031 BETA ( 4 ) = 4.229 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2330	.1022	-.0879	-.3050	-.2758
.025	.2331	.1837	-.1565	-.4345	-.3159
.050	.2335	.2489	-.15406	-.4291	-.2985
.075	.2361	.2474	-.1544	-.4428	-.2822
.100	.2575	.2332	-.2982	-.4577	-.3107
.125	.2485	.2057	.1248	-.1139	-.4087
.150	.2440	.1715	.0683	.0009	-.3572
.175	.2448	.1449	.0454	-.0137	-.3749
.200	.2448	.1171	.0443	-.1862	-.3877

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEP/51)

ALPHA ( 3 ) = 4.035 BETA ( 5 ) = 8.279 MACH = .59564 Q = 593.05 P = 2388.1 RN/L = 4.8166

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1838	-.6356	-.7365	-.5641	-.5120
.025	-.6635	-1.1833	-.8571	-.4602	-.3228
.050	-.6827	-.9958	-.8657	-.4666	-.3146
.150	-.8490	-1.0428	-.8879	-.4824	-.3052
.300	-.4099	-.4624	-.9565	-.4871	-.3158
.520	-.4078	-.1378	-.3591	-.5311	-.3759
.685	-.3354	.0822	-.1810	-.5533	-.4800
.775	-.2953	.0612	.0102	-.3844	-.4724
.900	-.1442	-.2035	-.0058	-.1995	-.4061

ALPHA ( 4 ) = 8.061 BETA ( 1 ) = -7.886 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1560 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0873	-.3456	-.1477	.1702	.1587
.025	.3659	.3391	.4239	.3663	.2921
.050	.3208	.3710	.3866	.3341	.2712
.150	.1886	.1931	.3048	.2564	.1832
.300	.0757	.1070	.2411	.2035	.1169
.520	-.1484	.2102	.2867	.1877	-.0029
.685	-.2778	.3230	-.1642	.2222	.1266
.775	-.2752	.2239	.1861	.1050	.0122
.900	.0352	-.0478	-.0728	-.0957	-.1098

ALPHA ( 4 ) = 3.070 BETA ( 2 ) = -3.859 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2908	.1693	.3107	.3528	.2815
.025	.1847	.1544	.2298	.1702	.0859
.050	.1743	.1482	.2220	.1721	.1020
.150	.0639	.0566	.1723	.1342	.0774
.300	-.0415	.0039	.1468	.1226	.0352
.520	-.2222	.1487	.2386	.1392	-.0579
.685	-.2976	.2811	-.1599	.2303	.0611
.775	-.2652	.1788	.1486	.0954	.0623
.900	.0032	-.0685	-.1015	-.1325	-.1640



DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AVES 11-073-1 )

AVES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V51)

ALPHA ( 4 ) = 8.069 BETA ( 3 ) = .180 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4165 .3432 .3522 .1420 .1028  
 .025 -.1050 -.3631 -.3854 -.2570 -.4385  
 .050 .0082 -.0828 -.1022 -.2502 -.2770  
 .150 -.0599 -.1016 .0059 -.0343 -.0620  
 .300 -.1455 -.1087 .0397 .0319 .0245  
 .520 -.2935 .0829 .1917 .0993 .0927  
 .685 -.2854 .2238 -.1605 .1432 .0570 -.3684  
 .775 -.2498 .1074 .0938 .0470 .0174 -.0784 -.3877  
 .900 -.0624 -.1208 -.1521 -.1847 -.2040 -.4021

ALPHA ( 4 ) = 8.069 BETA ( 4 ) = 4.237 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .2295 .0168 -.1389 -.3142 -.3130  
 .025 -.3891 -.6668 -.5956 -.4088 -.2983  
 .050 .3450 .5058 .5847 .4062 .2719  
 .150 .2798 .4364 .5838 .4125 .2644  
 .300 .2670 .2402 .2413 .4539 .3033  
 .520 .3594 .0038 .1328 .1884 .4279  
 .685 -.2758 .1539 -.1673 .0673 .0398 .3698  
 .775 -.2556 .0520 .0273 .0254 .0027 .0165 .3665  
 .900 -.1228 -.1847 -.1723 -.1718 -.0706 .3746

ALPHA ( 4 ) = 8.063 BETA ( 5 ) = 8.284 MACH = .59572 Q = 593.16 P = 2387.8 RN/L = 4.8368

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 -.2274 -.7020 -.7747 -.5945 -.5256  
 .025 -.7167 -.1434 -.8255 -.4544 -.3138  
 .050 .7269 .10110 .8350 .4504 .3072  
 .150 .8877 .10561 .8598 .4873 .3072  
 .300 .4062 .4418 .9533 .4936 .3048  
 .520 .4050 .1649 .3408 .5468 .3671  
 .685 .2947 .0583 .0639 .4709 .3412  
 .775 .2971 .0121 .0152 .0970 .2812 .4673 .3364  
 .900 .1599 .2134 .0261 .1180 .3834 .3371

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV51)

ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.847 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	-.0909	-.4441	-.1898	.0819	.0707
.025	.2898	.3213	.3899	.3210	.2566
.050	.2383	.2812	.3627	.3080	.2361
.150	.1106	.1717	.2825	.2309	.1521
.300	.0209	.1083	.2271	.1822	.0848
.520	-.1582	.2215	.2654	.1576	-.0320
.685	-.2577	.3462	-.1639	.1971	-.2765
.775	-.2745	.2469	.1858	.1190	-.2883
.900		.0620	-.0419	-.0807	-.1247

ALPHA ( 5 ) = 12.023 BETA ( 2 ) = -3.840 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.2910	.1313	.2604	.3005	.2279
.025	.1645	.1460	.2284	.1686	.0798
.050	.1664	.1301	.2076	.1587	.0947
.150	.0379	.0448	.1667	.1223	.0598
.300	-.0606	.0045	.1405	.1084	.0175
.520	-.2418	.1493	.2242	.1230	-.0788
.685	-.2876	.2890	-.1551	.1623	.0542
.775	-.2615	.1916	.1442	.0400	-.3409
.900		.0220	-.0662	-.1075	-.1803

ALPHA ( 5 ) = 12.027 BETA ( 3 ) = .177 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.3941	.3124	.3085	.0986	.0417
.025	-.1003	-.3670	-.3780	-.2654	-.4147
.050	-.0079	.0946	-.0878	-.2739	-.2589
.150	-.0736	-.1133	-.0051	-.0306	-.0573
.300	-.1508	-.1121	.0317	.0225	-.0387
.520	-.2960	.0779	.1713	.0837	-.1116
.685	-.2804	.2186	.1682	.1189	.0463
.775	-.2436	.1142	.0850	.0015	-.0938
.900		-.0547	-.1339	-.1936	-.2105

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ALPHA ( 5 ) = 12.024 BETA ( 4 ) = 4.250 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267  
(XEBV51)

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP				
Z/BV		.1580	.3170	.4590	.6020	.6970 .8390 .9250
X/CV						
.000	.2581	-.0199			-.2056	-.3467 -.3486
.025	-.3706	-.6894			-.6224	-.3961 -.2703
.050	-.3379	-.5278			-.6186	-.3935 -.2557
.150	-.2775	-.4288			-.6337	-.4015 -.2576
.300	-.2824	-.2403			-.2118	-.4381 -.2911
.520	-.3591	-.0035			.1254	-.2392 -.4453
.685	-.2618	.1533			.1388	.1079 -.3420
.775	-.2520	.0530			.0203	.0299 .0170
.900	-.1148	-.1963			-.1931	-.1662 -.0543 -.3184

ALPHA ( 5 ) = 12.010 BETA ( 5 ) = 8.307 MACH = .59550 Q = 592.81 P = 2388.1 RN/L = 4.8267

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP				
Z/BV		.1580	.3170	.4590	.6020	.6970 .8390 .9250
X/CV						
.000	-.2230	-.7392			-.8559	-.6099 -.5717
.025	-.8006	-1.1004			-.8374	-.4656 -.3365
.050	-.8099	-.9397			-.8503	-.4764 -.3205
.150	-.5439	-1.0854			-.8873	-.5083 -.3247
.300	-.4949	-.4765			-1.0063	-.5340 -.3282
.520	-.4890	-1.1479			-.2464	-.5583 -.4048
.685	-.3688	.0310			-.0007	-.4710 -.3459
.775	-.3366	-.0277			-.0393	-.0773 -.4996
.900		-.1891			-.2278	-.0578 -.0797 -.4015 -.3473

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TABULATED PRESSURE DATA - 0A148 ( AVES 11-073-1 )

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AVES 11-073(0A148) -140A/B/C/R ONB VERTICAL

(XEBV52) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -4.050 BETA ( 1 ) = -3.860 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .7869 .6715 .6500 .4715 .4722 .4178 .7166 .7000  
 .025 .6174 .5236 .4715 .4751 .4546 .4722 .4178  
 .050 .6279 .5237 .4637 .4751 .4546 .4722 .4178  
 .150 .5310 .4206 .3936 .4210 .4305 .4210 .4305  
 .300 .3863 .3339 .3334 .4127 .3832 .4127 .3832  
 .520 .2228 .2292 .3837 .3837 .4203 .2673 .4203 .2673  
 .695 .2559 .1031 .3837 .3837 .4702 .1431 .4702 .1431  
 .775 .3422 .0724 .2935 .3005 .2937 .1035 .2937 .1035  
 .900 .0183 .1399 .2361 .2564 .1226 .1662 .1226 .1662

X/CV

.000

.025

.050

.150

.300

.520

.695

.775

.900

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = 4.000 MACH = 1.400

ALPHA ( 1 ) = -4.043 BETA ( 2 ) = .186 MACH = 1.3963 Q = 600.46 P = 439.94 RN/L = 2.9139

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .9376 .7427 .7060 .0343 .0367 .1687 .7178 .6099  
 .025 .2737 .1476 .0844 .0860 .1148 .0367 .1687  
 .050 .4593 .3538 .2739 .2495 .2068 .2495 .2068  
 .150 .4338 .2739 .1951 .2441 .2687 .2441 .2687  
 .300 .2937 .2140 .2829 .4139 .2172 .4139 .2172  
 .520 .1284 .1192 .2609 .2798 .1691 .2798 .1691  
 .695 .3360 .0394 .1963 .2150 .2346 .2346 .2150  
 .775 .3729 .0069 .1433 .1809 .0710 .0710 .1859  
 .900 .0717 .0526 .1433 .1809 .0710 .0710 .1859

X/CV

.000

.025

.050

.150

.300

.520

.695

.775

.900

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV52)

ALPHA ( 1 ) = -4.048 BETA ( 3 ) = 4.268 MACH = 1.3963 Q = 600.48 P = 439.94 RN/L = 2.9139

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.7696
.025	.6684
.050	.5707
.075	.4775
.100	.3840
.125	.2959
.150	.2127
.175	.1334
.200	.0558
.225	.0728
.250	.1034
.275	.1476
.300	.2001
.325	.2591
.350	.3243
.375	.3961
.400	.4637
.425	.5267
.450	.5849
.475	.6377
.500	.6849
.525	.7267
.550	.7637
.575	.7954
.600	.8214
.625	.8418
.650	.8567
.675	.8661
.700	.8701
.725	.8687
.750	.8619
.775	.8497
.800	.8321
.825	.8091
.850	.7807
.875	.7471
.900	.7083

ALPHA ( 2 ) = -.027 BETA ( 1 ) = -3.878 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.7185
.025	.5923
.050	.4476
.075	.3055
.100	.1642
.125	.0227
.150	.0000
.175	.0000
.200	.0000
.225	.0000
.250	.0000
.275	.0000
.300	.0000
.325	.0000
.350	.0000
.375	.0000
.400	.0000
.425	.0000
.450	.0000
.475	.0000
.500	.0000
.525	.0000
.550	.0000
.575	.0000
.600	.0000
.625	.0000
.650	.0000
.675	.0000
.700	.0000
.725	.0000
.750	.0000
.775	.0000
.800	.0000
.825	.0000
.850	.0000
.875	.0000
.900	.0000

ALPHA ( 2 ) = -.013 BETA ( 2 ) = .172 MACH = 1.3971 Q = 600.78 P = 439.70 RN/L = 2.9154

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.7625
.025	.6708
.050	.5708
.075	.4637
.100	.3510
.125	.2342
.150	.1121
.175	.0000
.200	.0000
.225	.0000
.250	.0000
.275	.0000
.300	.0000
.325	.0000
.350	.0000
.375	.0000
.400	.0000
.425	.0000
.450	.0000
.475	.0000
.500	.0000
.525	.0000
.550	.0000
.575	.0000
.600	.0000
.625	.0000
.650	.0000
.675	.0000
.700	.0000
.725	.0000
.750	.0000
.775	.0000
.800	.0000
.825	.0000
.850	.0000
.875	.0000
.900	.0000

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(MEBVS2)

ALPHA ( 2 ) = -.015 BETA ( 3 ) = 4.247 MACH = 1.3971 Q = 600.70 P = 439.70 RN/L = 2.9154

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6940	.5982	.5376	.4266	.2707
.025	-.0232	-.1316	-.2916	-.4981	-.5573
.050	.0412	-.1316	-.3312	-.5087	-.5443
.150	.1497	-.0249	-.1061	-.3956	-.4608
.300	.1544	.0484	-.0650	-.0122	-.1658
.520	-.0009	-.0375	.0526	.1623	.0736
.685	-.4091	-.0934	.0734	.0837	.1937
.775	-.3978	-.1226	.0313	.0540	.1160
.900		-.1868	.0116	.0248	-.0106

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = -3.886 MACH = 1.3964

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6244	.5301	.5004	.4902	.5034
.025	.3827	.3696	.3147	.3270	.2832
.050	.4229	.3744	.3140	.3223	.3161
.150	.3487	.2756	.2541	.2683	.2702
.300	.3408	.1956	.1952	.2558	.2489
.520	.0367	.1057	.2394	.3483	.1721
.685	-.3345	.0124	.2174	.2283	.2934
.775	-.3751	-.0179	.0789	.1831	.2015
.900		-.0749	.0365	.1398	.0710

ALPHA ( 3 ) = 3.912 BETA ( 2 ) = .174 MACH = 1.3964

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1520 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6706	.5991	.5357	.4946	.3898
.025	.1599	.0712	-.0409	-.0544	-.1659
.050	.3316	.2614	-.0253	-.0459	-.1354
.150	.3283	.1662	.1155	.1280	.1284
.300	.1737	.0913	.0862	.1176	.1255
.520	.0232	.0076	.1476	.2621	.1166
.685	.3984	-.0484	.1433	.2352	-.2303
.775	-.3748	-.0860	.0041	.0987	.1428
.900		-.1533	-.0484	.0576	-.0094

RN/L = 2.9092

P = 439.71

Q = 600.16

MACH = 1.3964

BETA ( 1 ) = -3.886

ALPHA ( 3 ) = 3.910

RN/L = 2.9092

P = 439.71

Q = 600.16

MACH = 1.3964

BETA ( 2 ) = .174

ALPHA ( 3 ) = 3.912

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.916 BETA ( 3 ) = 4.236 MACH = 1.3964 Q = 600.18 P = 439.71 RN/L = 2.9092  
(XEBV52)

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5918	.5388		.4563		.3674	.2192
.025	-.0962	-.1566		-.3445		-.4959	-.5480
.050	-.0077	-.1407		-.3671		-.5058	-.5433
.150	.1449	-.0329		-.1440		-.3688	-.4628
.300	.1039	-.0098		-.0905		-.0582	-.1166
.520	-.0714	-.0914		-.0002		.1029	.0094
.685	-.3717	-.1445		-.1575	.0319	.1348	-.2857
.775	-.3781	-.1731		-.0856	-.0165	.0699	-.2534
.900		-.2288	-.1293	-.0488	-.0294	-.0474	-.2970

ALPHA ( 4 ) = 7.922 BETA ( 1 ) = -3.876 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5973	.4895		.4267		.3834	.4140
.025	.2772	.3016		.2493		.2608	.2330
.050	.3895	.3134		.2485		.2516	.2514
.150	.2885	.2178		.1908		.1998	.2042
.300	.1574	.1309		.1411		.1858	.1879
.520	.0419	.0473		.1733		.2433	.1215
.685	-.4076	-.0168	-.1747	.1577	.1683	.2299	-.2317
.775	-.4076	-.0478	.0406	.1065	.1302	.1584	-.2123
.900		-.1115	-.0032	.0677	.0831	.0393	-.2761

ALPHA ( 4 ) = 7.930 BETA ( 2 ) = .169 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

## SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6867	.5242		.4442		.3864	.3673
.025	.1923	.0426		-.0649		-.0789	-.1804
.050	.3582	.2152		-.0611		-.0641	-.1522
.150	.2978	.1129		.0615		.0613	.0670
.300	.1169	.0390		.0256		.0544	.0646
.520	-.0381	-.0467		.0840		.1920	.0616
.685	-.4238	-.0887	-.1615	.0599	.0760	.1598	-.2608
.775	-.3836	.1229	-.0406	.0135	.0383	.0916	-.2395
.900		-.1908	-.0896	-.0232	-.0012	-.0240	-.2943

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V52)

ALPHA ( 4 ) = 7.931 BETA ( 3 ) = 4.235 MACH = 1.3965 Q = 599.65 P = 439.24 RN/L = 2.9107

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.3847
.025	-.3557
.050	-.3784
.075	-.4894
.100	-.1653
.125	-.1013
.150	-.0946
.175	-.0427
.200	-.0450
.225	-.0209
.250	-.0396
.275	-.0111
.300	-.0750

ALPHA ( 5 ) = 11.858 BETA ( 1 ) = -3.866 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.3569
.025	.1981
.050	.1969
.075	.1353
.100	.0849
.125	.1226
.150	.1184
.175	.1311
.200	.0943
.225	.0450
.250	.0208

ALPHA ( 5 ) = 11.857 BETA ( 2 ) = .167 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.3796
.025	-.0926
.050	-.0867
.075	.0175
.100	-.0151
.125	.0345
.150	.0119
.175	.0275
.200	-.0172
.225	-.0070
.250	-.0424



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TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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(XEBV52)

AXES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 5 ) = 11.865 BETA ( 3 ) = 4.248 MACH = 1.3951 Q = 600.34 P = 440.65 RN/L = 2.9166

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .6343 .4745 .3172 .2441 .1369  
 .025 .1212 .1493 .3515 .4683 .5344  
 .050 .1834 .1377 .3769 .4724 .5438  
 .150 .2253 .0293 .1949 .2928 .3948  
 .300 .0492 .0766 .1289 .1336 .1739  
 .520 .1429 .1653 .0719 .0083 .0525  
 .685 .4144 .2117 .1779 .0797 .0665 .0029 .3246  
 .775 .3846 .2372 .1583 .1005 .0835 .0365 .3204  
 .900 .2883 .1997 .1358 .1128 .1128 .3485

ALPHA ( 6 ) = 15.826 BETA ( 1 ) = -3.845 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .7654 .5122 .3308 .2455 .2710  
 .025 .2035 .1406 .1588 .1543 .1372  
 .050 .0448 .2663 .1562 .1472 .1474  
 .150 .2396 .1167 .0943 .0986 .0948  
 .300 .0561 .0094 .0411 .0723 .0792  
 .520 .0975 .0568 .0662 .1347 .0537  
 .685 .4120 .0665 .1838 .0896 .1391 .2644  
 .775 .3905 .0789 .0134 .0641 .0728 .0956 .2514  
 .900 .1360 .0226 .0253 .0220 .0074 .3114

ALPHA ( 6 ) = 15.841 BETA ( 2 ) = .165 MACH = 1.3947 Q = 600.64 P = 441.12 RN/L = 2.9102

SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .7027 .4981 .3319 .2432 .3208  
 .025 .0827 .0129 .1262 .1380 .2019  
 .050 .2949 .1565 .1293 .1425 .1547  
 .150 .2762 .0581 .0184 .0255 .0163  
 .300 .0758 .0337 .0448 .0441 .0246  
 .520 .1132 .1179 .0097 .0809 .0274  
 .685 .4389 .1479 .0231 .0401 .3112  
 .775 .3341 .1753 .0491 .0403 .0087 .2997  
 .900 .2329 .1397 .0861 .0818 .0762 .3461

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV52)

ALPHA ( 6 ) = 15.833 BETA ( 3 ) = 4.274 MACH = 1.3947 0 = 600.64 P = 441.12 RV/L = 2.9102

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7626	.5292	.2889	.1788	.0994
.025	.1261	.1157	.3576	.4639	.5329
.050	.2565	.1143	.3880	.4698	.5450
.100	.2936	.0264	.2056	.2642	.3914
.200	.0754	.0777	.1447	.1636	.2175
.300	.1413	.1722	.0998	.0284	.0825
.400	.4496	.2103	.1028	.0929	.3378
.500	.4053	.2370	.1147	.1076	.3378
.600		.2332	.1506	.1416	.3713

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV53) ( 13 AUG 75 )

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( 1 ) = -4.036 BETA ( 1 ) = -3.860 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0068

PARAMETRIC DATA

RUDDER = -10.000 SPDRBK = 55.000  
BOFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = 4.000 MACH = 1.250

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.7304	.5508 .5716 .6781 .6569
.025	.5573	.4297 .3893 .4050 .3267
.050	.5642	.4302 .3765 .4092 .3741
.150	.4537	.3268 .3044 .3590 .3525
.300	.2974	.2395 .2490 .3329 .3023
.450	.1259	.1354 .3061 .3511 .1596
.600	.4205	.0205 .2968 .3958 .2683
.750	.4072	.1214 .2172 .1900 .2228
.900	.1724	.0661 .1501 .1544 .2725

ALPHA ( 2 ) = -4.029 BETA ( 2 ) = .182 MACH = 1.2435

SECTION ( 2 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.7812	.6643 .6395 .6485 .5369
.025	.2256	.0535 -.0546 -.1725 -.3206
.050	.3960	.2691 -.0048 -.0316 -.2383
.150	.3553	.1839 .1411 .1596 .1088
.300	.1998	.1164 .1131 .1791 .1871
.450	.0360	.0203 .2199 .3330 .1202
.600	.4594	.0742 .2056 .1874 .2028
.750	.4459	.1143 .0215 .1186 .2822
.900	.1833	-.0313 .0507 .1349 .1255
		-.0899 -.0451 -.2476 -.3031

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TABULATED PRESSURE DATA - 0A148 ( AVES 11-073-1 )

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AVES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV53)

ALPHA ( 1 ) = -4.033 BETA ( 3 ) = 4.271 MACH = 1.2435 Q = 597.22 P = 551.79 RN/L = 3.0088

SECTION 1 VERTICAL

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/C/

.000	.7287	.5909	.5588	.3828	.2404
.025	.0367	-.1787	-.3640	-.5667	-.5690
.050	.0263	-.1763	-.4051	-.6375	-.5574
.075	.1182	-.0325	-.1268	-.3405	-.5389
.100	.1246	-.0007	-.0915	-.1482	-.3091
.125	.0032	-.0026	.0100	.0226	-.0473
.150	-.0438	-.1372	-.2150	.0581	.0632
.175	-.1434	-.1771	-.0482	.0086	.0026
.200	-.1434	-.1771	-.1105	-.0277	-.1065
.225					
.250					

ALPHA ( 2 ) = .011 BETA ( 1 ) = -3.881 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0118

SECTION 2 VERTICAL

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/C/

.000	.6370	.5173	.4914	.5622	.5444
.025	.0765	.1702	.3114	.3182	.2706
.050	.0914	.1693	.3050	.3234	.3058
.075	.0806	.2654	.2373	.2663	.2803
.100	.0293	.1760	.1724	.2630	.2348
.125	.0871	.0712	.2127	.2852	.1261
.150	.1585	-.0537	-.2005	.3207	-.2952
.175	-.0246	-.0513	.1325	.1589	-.2558
.200		.715	.0062	.1139	-.3143
.225					
.250					

ALPHA ( 2 ) = .011 BETA ( 2 ) = .178 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0119

SECTION 3 VERTICAL

Z/B/ .1590 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/C/

.000	.7304	.5925	.5500	.5620	.4459
.025	.0315	-.1015	-.1157	-.1805	-.3283
.050	.0215	-.0924	-.0653	-.0681	-.2632
.075	.1182	-.0325	.0773	.1023	.0716
.100	.1246	-.0007	.0442	.1023	.1279
.125	.0032	-.0026	.1263	.2642	.0617
.150	-.0438	-.1372	.1123	.2391	-.3292
.175	-.1434	-.1771	.1470	.0655	-.0921
.200	-.1434	-.1771	-.0951	.0324	-.0730
.225					
.250					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6907

AMES 11-073(0A148) - 140A/8/C/R ORB VERTICAL (XEBV53)

ALPHA ( 2 ) = .000 BETA ( 3 ) = 4.247 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0119

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6556	.5166	.4655	.3227	.1612
.025	-.0612	-.2261	-.4022	-.6452	-.6310
.050	-.0225	-.2264	-.4448	-.6741	-.6269
.100	.0879	-.1148	-.2063	-.4313	-.6104
.200	.0693	.0529	-.1528	-.1599	-.2442
.300	-.1020	-.1290	-.0282	.0622	-.0614
.400	-.1357	-.1933	-.2067	-.0017	.0933
.500	-.1749	-.2323	-.1117	-.0524	-.3581
		-.3027	-.1645	-.0803	-.1301
					-.4112

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -3.877 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6283	.4904	.4425	.4874	.4758
.025	.3880	.3078	.2587	.2722	.2184
.050	.4204	.3156	.2509	.2727	.2579
.100	.3285	.2195	.1890	.2199	.2333
.200	.1921	.1346	.1348	.2211	.1924
.300	.0307	.0312	.1823	.2847	.0939
.400	-.5049	-.0769	.1673	.1833	.2547
.500	-.3912	-.1037	.0119	.1152	.1224
.600		-.1550	-.0373	.0750	-.0423
					-.3519

ALPHA ( 3 ) = 3.945 BETA ( 2 ) = .180 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7115	.5551	.4993	.4992	.3821
.025	.1633	-.0023	-.1207	-.1850	-.3282
.050	.3429	.1913	-.0891	-.1056	-.2781
.100	.2801	.0935	.0425	.0687	.0566
.200	.1119	.0203	.0141	.0682	.0944
.300	-.0507	-.0593	.0987	.2250	.0332
.400	-.6245	-.1402	.0733	.0928	.1970
.500	-.4253	-.1512	.0134	.0332	.0548
.600		-.2443	-.1277	-.0041	-.0960
					-.3587

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/P ORB (EXTERNAL)

ALPHA ( 4 ) = 3.949 BETA ( 3 ) = 4.232 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0121  
(XEBV53)

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .6105 .4958 .4161 .2826 .1161  
.025 -.0656 -.2367 -.4158 -.6300 -.6109  
.050 .0238 -.2168 -.4570 -.6618 -.6012  
.150 .1140 -.0953 -.2283 -.3886 -.5797  
.300 .0420 -.0650 -.1509 -.1781 -.3180  
.520 -.1486 -.1693 -.0370 -.0681 -.0074  
.635 -.4297 -.2353 -.0276 -.0207 .1131 .3840  
.775 -.4046 -.2611 -.1560 -.0702 -.0581 -.0172 -.3689  
.910 .2929 -.1979 -.1161 -.0962 -.1411 -.4141

ALPHA ( 4 ) = 7.975 BETA ( 1 ) = -3.876 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .6428 .4522 .3712 .3776 .3847  
.025 .3354 .2430 .1876 .2106 .1734  
.050 .3845 .2607 .1898 .2061 .2004  
.150 .2704 .1640 .1304 .1543 .1692  
.300 .1191 .0654 .0811 .1553 .1330  
.520 .0145 -.0173 .1297 .2375 .0468  
.635 -.5057 -.1078 -.1773 .1163 .1778 .3355  
.775 -.4233 -.1400 -.0350 .0371 .0626 .0773 .3227  
.900 .2024 -.0830 -.0087 .0206 -.0640 -.3844

ALPHA ( 4 ) = 7.918 BETA ( 2 ) = .169 MACH = 1.2465 Q = 599.91 P = 551.57 RN/L = 3.0143

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
DEPENDENT VARIABLE CP

X/COV  
.000 .6904 .4872 .4157 .4053 .2786  
.025 .1360 -.0246 -.1433 -.1873 -.3170  
.050 .2324 .1537 -.1197 -.1667 -.2830  
.150 .2458 .0472 .0078 .0130 .0130  
.300 .0543 .0307 .0362 .0092 .0427  
.520 .1063 .1143 .0415 .1567 .0083  
.635 .5252 .1743 .1715 .0328 .1284 .3664  
.775 .4105 .2143 .1198 .0470 .0165 .0247 .3489  
.900 .2761 .1664 .0826 .0522 .1216 .3916

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V53)

ALPHA ( 4 ) = 7.882 BETA ( 3 ) = 4.233 MACH = 1.2465 Q = 599.91 P = 551.57 RW/L = 3.0143

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6375	.4647	.3438	.2187	.0575
.025	.0841	-.2364	-.4372	-.6202	-.5989
.050	.1327	-.2123	-.4809	-.6277	-.5934
.100	.1700	-.0774	-.2602	-.4188	-.5783
.150	.300	-.0219	-.1169	-.2069	-.3698
.200	.1901	-.2111	-.0808	.0285	-.0667
.250	.4533	-.2702	-.0737	.0467	-.3958
.300	.4275	-.3004	-.2018	-.0973	-.4052
.350	-.3146	-.2417	-.1120	-.1363	-.4380
.400					
.450					
.500					
.550					
.600					
.650					
.700					
.750					
.800					
.850					
.900					

ALPHA ( 5 ) = 11.916 BETA ( 1 ) = -3.857 MACH = 1.2482 Q = 600.48 P = 550.64 RW/L = 3.0151

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6695	.4309	.3099	.2867	.3096
.025	.2856	.2020	.1394	.1595	.1294
.050	.3556	.2207	.1377	.1528	.1526
.100	.2218	.1143	.0805	.1074	.1197
.150	.0462	.0124	.0339	.1133	.0942
.200	-.0692	-.0583	.1013	.2034	.0143
.250	-.5040	-.1077	.0743	.0852	.1303
.300	.4277	-.1420	.0187	.0395	.0524
.350		-.2101	-.0921	-.0063	-.0794
.400					-.4057
.450					
.500					
.550					
.600					
.650					
.700					
.750					
.800					
.850					
.900					

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .181 MACH = 1.2482 Q = 600.48 P = 550.64 RW/L = 3.0151

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6724	.4473	.3449	.3213	.2345
.025	.1684	-.0545	-.1815	-.2050	-.3317
.050	.3078	.1219	-.1647	-.2081	-.2918
.100	.2301	.0134	-.0499	-.0384	-.0331
.150	.0264	-.0648	-.0820	-.0431	-.0138
.200	-.1424	-.1495	-.0089	.1030	.0470
.250	.5284	-.2070	-.1752	-.0389	-.0698
.300	.4199	-.2367	-.1500	-.0886	-.0568
.350		-.2978	-.1932	-.0938	-.1403
.400					-.4186
.450					
.500					
.550					
.600					
.650					
.700					
.750					
.800					
.850					
.900					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV53)

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = 4.245 MACH = 1.2482 Q = 600.48 P = 550.64 RN/L = 3.0151

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6660	.4330	.2794	.1540	.0105
.025	.0653	-.2354	-.4416	-.6106	-.6111
.050	.1357	-.2191	-.4802	-.6015	-.6019
.150	.1690	-.0955	-.2804	-.3537	-.5948
.300	-.0313	-.1465	-.1915	-.2318	-.3522
.520	-.2128	-.2383	-.1264	-.0293	-.0987
.685	-.4744	-.2925	-.1206	-.1109	-.0482
.775	-.4320	-.3164	-.1498	-.1406	-.4305
.900		-.3421	-.1896	-.1762	-.1975



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV54) ( 13 AUG 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDRK = 55.000  
BDFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = 4.000 MACH = 1.100

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = -3.853 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.6919	.5527
.025	.5246	.3513
.050	.5173	.3704
.100	.3793	.2750
.150	.2293	.1948
.200	.0560	.0623
.250	-.4787	-.0859
.300	-.3687	-.0493
.350		-.0182
.400		.0639
.450		.0967
.500		.1460
.550		.1713
.600		.1815
.650		.2432
.700		.3238
.750		.4091
.800		.4971
.850		.5972
.900		.6970
.950		.8390
.975		.9250

ALPHA ( 2 ) = -3.931 BETA ( 2 ) = .182 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837

SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.3170	.4590 .6020 .6970 .8390 .9250
.000	.7452	.6169
.025	.2447	.0190
.050	.3705	.1993
.100	.2789	.1167
.150	.1223	.0630
.200	-.0301	.0275
.250	-.4987	.1529
.300	-.4607	.1647
.350		-.0334
.400		-.0579
.450		-.0040
.500		.1321
.550		.1314
.600		.0773
.650		.0044
.700		-.0052
.750		-.1784
.800		-.3914
.850		.4640
.900		-.3166
.950		-.1494
.975		-.3244

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ALPHA ( 1 ) = -3.991 BETA ( 3 ) = 4.263 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1837  
(XEBV54)

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6706	.5393		.5260	.2746	.1543	
.025	.0227	-.3284		-.5113	-.7360	-.5849	
.050	.0354	-.2300		-.5460	-.7279	-.5852	
.150	.1307	-.0659		-.1988	-.5205	-.5618	
.300	.0238	-.0756		-.1568	-.3222	-.4721	
.520	-.1200	-.1334		-.0471	-.0107	-.3050	
.685	-.5550	-.2238	-.2033	-.0442	-.0114	.0496	-.4535
.775	-.4542	-.2592	-.1389	-.0950	-.0681	-.0650	-.4126
.900		-.2538	-.1885	-.1467	-.1006	-.2153	-.4155

ALPHA ( 2 ) = .009 BETA ( 1 ) = -3.870 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6444	.4907		.4601	.5807	.5424	
.025	.4563	.2911		.2664	.2734	.1792	
.050	.4578	.3015		.2543	.2880	.2417	
.150	.3256	.2052		.1886	.2388	.2401	
.300	.1637	.1227		.1327	.2294	.1976	
.520	-.0073	.0028		.1658	.2715	.0575	
.685	-.4985	-.1394	-.1463	.2051	.2131	.2910	-.4031
.775	-.3751	-.1507	-.0060	.1580	.1591	.0698	-.3861
.900		-.1130	.0833	.0828	.0467	-.1378	-.4142

ALPHA ( 2 ) = .092 BETA ( 2 ) = .176 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7065	.5565		.5296	.5086	.3753	
.025	.1866	-.0622		-.1772	-.3209	-.5182	
.050	.3258	.1501		-.0378	-.1652	-.4229	
.150	.2402	.0677		.0509	.0299	-.0059	
.300	.0759	.0072		.0290	.0571	.0529	
.520	-.0849	-.0896		.1071	.2142	-.0283	
.685	-.5128	-.2081	-.1522	.0769	.0781	.1628	-.4559
.775	-.4037	-.2275	-.0874	-.0059	.0172	-.0201	-.4295
.900		-.1718	-.1063	-.0555	-.0437	-.2053	-.4403

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TABULATED PRESSURE DATA - 0A148 ( AVES 11-073-1 )

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AVES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV54)

ALPHA ( 2 ) = .026 BETA ( 3 ) = 4.243 MACH = 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1854

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6272	.4781	.4528	.2195	.0728
.025	-.0583	-.3517	-.5278	-.7911	-.6488
.050	-.0252	-.3052	-.5608	-.7800	-.6499
.150	.0866	-.1257	-.2494	-.5044	-.6311
.300	-.0192	-.1283	-.2038	-.3480	-.5149
.520	-.1850	-.2060	-.0774	.0123	-.1817
.685	-.5401	-.2801	-.0849	.0437	-.4573
.775	-.4560	-.3099	-.1897	-.1231	-.4588
.900		-.2676	-.1816	-.1538	-.4649

ALPHA ( 3 ) = 3.932 BETA ( 1 ) = -3.873 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1859

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6061	.4336	.3741	.4797	.4363
.025	.3514	.2188	.1853	.2018	.1174
.050	.3774	.2320	.1784	.2124	.1745
.150	.2610	.1344	.1151	.1673	.1847
.300	.1070	.0475	.0562	.1623	.1646
.520	-.0612	-.0697	.1153	.2923	.0401
.685	-.5700	-.1910	.1134	.2474	-.4124
.775	-.3916	-.2092	.0817	.1444	-.4088
.900		-.1629	.0723	.0307	-.4436

ALPHA ( 3 ) = 3.933 BETA ( 2 ) = .171 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1859

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6768	.5006	.4500	.4344	.2927
.025	.1484	-.0978	-.2139	-.3427	-.5454
.050	.2935	.1123	-.1219	-.2172	-.4317
.150	.2048	.0101	-.0287	-.0164	-.0409
.300	.0238	-.0520	-.0405	.0154	.0030
.520	-.1229	-.1372	.0466	.1657	-.0780
.685	-.5418	-.2491	-.0180	.0213	-.4821
.775	-.4141	-.2852	-.0494	-.0476	-.4635
.900		-.2226	-.1056	-.0851	-.4699

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV54)

ALPHA ( 3 ) = 3.943 BETA ( 3 ) = 4.232 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1659

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5970	.4309		.3596	.1521	-.0129	
.025	-.1086	-.3689		-.5530	-.8084	-.6866	
.050	-.0241	-.3337		-.5945	-.7919	-.6859	
.150	.0489	-.1745		-.3265	-.5123	-.6781	
.300	-.0580	-.1716		-.2304	-.3778	-.5678	
.520	-.2535	-.2714		-.1074	.0059	-.0859	
.685	-.4779	-.3422	-.1631	-.1105	.0271	-.4922	
.775	-.4110	-.3380	-.2418	-.1641	-.1631	-.1360	-.5163
.900		-.2782	-.2494	-.2066	-.1905	-.2664	-.5193

ALPHA ( 4 ) = 7.906 BETA ( 1 ) = -3.871 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6136	.3794		.3000	.3612	.3568	
.025	.3386	.1565		.1078	.1499	.1617	
.050	.3627	.1718		.1095	.1518	.1639	
.150	.2148	.0663		.0536	.1161	.1823	
.300	.0257	-.0272		.0063	.1437	.1329	
.520	-.1103	-.0969		.0580	.2793	.0276	
.685	-.6257	-.2133	-.1592	.0951	.1985	-.4169	
.775	-.4118	-.2331	-.0967	.0871	.0840	-.4091	
.900		-.1776	-.0351	.0273	.0106	-.1594	-.4494

ALPHA ( 4 ) = 8.005 BETA ( 2 ) = .170 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6461	.4339		.3646	.3549	.2024	
.025	.1320	-.1391		-.2687	-.3700	-.5548	
.050	.2684	.0637		-.1957	-.2633	-.4628	
.150	.1626	-.0474		-.0958	-.0762	-.0852	
.300	-.0358	-.1218		.1289	-.0424	-.0434	
.520	-.1967	-.1969		-.0261	.1021	-.1169	
.685	-.5737	-.3732	-.1518	-.0509	.0644	-.5005	
.775	-.4288	-.3059	-.2142	-.1185	-.1008	-.0863	-.4769
.900		-.2595	-.2290	-.1593	-.1289	-.2545	-.4793

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TABULATED PRESSURE DATA - DA148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/8/C/R ORB VERTICAL

(XEBVSH)

ALPHA ( 4 ) = 8.008 BETA ( 3 ) = 4.224 MACH = 1.1009 Q = 600.53 P = 707.91 RN/L = 3.1862

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6062	.3810	.2706	.0837	-.0888
.025	-.0370	-.3749	-.5849	-.8053	-.7247
.050	.0292	-.3220	-.6222	-.7881	-.7179
.150	.0725	-.1950	-.3841	-.5124	-.7382
.300	-.1204	-.2262	-.2618	-.3888	-.6029
.520	-.3055	-.3223	-.1495	-.0294	-.1157
.685	-.5090	-.3884	-.1563	-.1559	-.0329
.775	-.4469	-.3922	-.2986	-.2021	-.4972
.900		-.3329	-.3064	-.2559	-.1750
				-.2375	-.5238
				-.3001	-.5349

ALPHA ( 5 ) = 11.922 BETA ( 1 ) = -3.854 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6431	.3627	.2293	.2607	.2909
.025	.1956	.1116	.0745	.1085	.1230
.050	.2872	.1338	.0750	.1012	.1475
.150	.1496	.0298	.0159	.0875	.1163
.300	-.0316	-.0573	-.0302	.1107	.6396
.520	-.1398	-.1183	.0176	.2156	-.0084
.685	-.6125	-.2125	.0646	.0903	.1538
.775	-.4468	-.2492	.0214	.0303	.4403
.900		-.2897	-.1341	-.0124	.4342
				-.1714	-.4755

ALPHA ( 5 ) = 11.941 BETA ( 2 ) = .179 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6326	.3954	.2962	.2787	.1044
.025	.1059	-.1735	-.2967	-.3916	-.5725
.050	.2415	.0227	-.2358	-.3170	-.4698
.150	.1354	-.0852	-.1459	-.1242	-.1411
.300	-.0666	-.1619	-.1740	-.0838	-.0628
.520	-.2372	-.2370	-.0748	.0623	-.1430
.685	-.5729	-.3282	-.1475	-.0751	.0203
.775	-.4511	-.2513	-.2433	-.1277	-.1060
.900		-.2644	-.2452	-.1563	-.2301
					-.4901

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV54)

ALPHA ( 5 ) = 12.005 BETA ( 3 ) = 4.239 MACH = 1.1005 Q = 600.31 P = 708.13 RN/L = 3.1832

SECTION 11 VERTICAL

DEPENDENT VARIABLE CP

Z/2V	.1560	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6364	.3577		.2040		-.0369	-.1940
.025	.0103	-.3948		-.6073		-.7931	-.7422
.050	.1041	-.3353		-.6396		-.7979	-.7292
.100	.0762	-.2143		-.4285		-.6278	-.7363
.150	.1464	-.2634		-.2329		-.4001	-.6477
.200	.3395	-.3551		-.1904		-.1208	-.1670
.250	.5573	-.4154	-.1333	-.1947	-.1897	-.1191	-.5380
.300	.4711	-.4348	-.3327	-.2511	-.2393	-.1994	-.5376
.350		-.3553	-.3448	-.2877	-.2821	-.3410	-.5487

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV55) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -3.861 MACH = .90063 Q = 600.64 P = 1057.8 RN/L = 3.5876

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .4926 .3543 .4681 .5732 .5252 .5252  
 .025 .3724 .2532 .3071 .2240 .1122 .1122  
 .050 .3545 .2497 .2852 .2354 .1713 .1713  
 .150 .2190 .1484 .2021 .1780 .1340 .1340  
 .300 .0803 .0555 .1397 .1315 .0600 .0600  
 .520 .1391 .0498 .1532 .1187 .0744 .0744  
 .685 .3323 .0071 .1060 .1032 .3848 .3848  
 .775 .1240 .0673 .0091 .0059 .1521 .3361  
 .900 .1256 .0828 .1058 .1467 .2780 .3479

X/CV

DEPENDENT VARIABLE CP

ALPHA ( 1 ) = -3.902 BETA ( 2 ) = .179 MACH = .90063 Q = 600.64 P = 1057.8 RN/L = 3.5876

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .000 .5659 .4782 .5623 .4383 .3439 .3439  
 .025 .0499 .2251 .3648 .4207 .4839 .4839  
 .050 .1720 .0267 .0326 .2595 .4584 .4584  
 .150 .0727 .0408 .0244 .0685 .0886 .0886  
 .300 .0583 .0859 .0230 .0074 .0516 .0516  
 .520 .2381 .1730 .0519 .0741 .1188 .1188  
 .685 .3733 .0698 .0235 .0057 .0019 .4263  
 .775 .2549 .1248 .0642 .0614 .0685 .2093 .3734  
 .900 .1831 .1451 .1556 .1910 .3173 .3906

X/CV

DEPENDENT VARIABLE CP

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 OF POOR QUALITY

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV55)

ALPHA ( 1 ) = -3.952 BETA ( 3 ) = 4.262 MACH = .90063 Q = 600.64 P = 1057.8 RV/L = 3.5876

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X-CV

.000	.4791	.3450	.2978		-.0067	-.0457
.025	-.1848	-.6655	-.8531		-.7202	-.5426
.050	-.1140	-.5952	-.8110		-.7017	-.5315
.100	-.1703	-.5208	-.4525		-.7060	-.4841
.150	-.2228	-.2950	-.2874		-.6843	-.4628
.200	-.3506	-.3324	-.1423		-.3496	-.4943
.250	-.4463	-.1231	-.2055		-.1127	-.0588
.300	-.6554	-.1742	-.1339		-.1546	-.4699
.350	-.6554	-.1742	-.1339		-.1116	-.4635
.400	-.6554	-.1742	-.1339		-.1897	-.4536

ALPHA ( 2 ) = .074 BETA ( 1 ) = -3.874 MACH = .89883 Q = 599.16 P = 1059.5 RV/L = 3.5834

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X-CV

.000	.4289	.2744	.3896		.5050	.4531
.025	.2056	.1377	.2852		.2174	.1113
.050	.2914	.1877	.2602		.2200	.1520
.100	.1558	.0364	.1738		.1606	.1077
.150	.0273	.0157	.1222		.1159	.0344
.200	-.1756	-.0532	.1350		.0938	-.0932
.250	-.3239	-.0116	-.1768		.0451	-.0812
.300	-.4723	-.0572	-.0324		-.0283	-.3652
.350	-.4723	-.0572	-.0324		-.1668	-.3365
.400	-.4723	-.0572	-.0324		-.1655	-.3588

ALPHA ( 2 ) = .080 BETA ( 2 ) = .167 MACH = .89883 Q = 599.16 P = 1059.5 RV/L = 3.5834

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X-CV

.000	.5206	.3912	.5054		.3792	.2739
.025	-.0105	-.2660	-.3529		-.4012	-.4658
.050	.1227	.0306	-.0486		-.2617	-.4579
.100	.0082	-.0795	-.0384		-.0651	-.1078
.150	-.1116	.1173	-.0337		-.0235	-.0627
.200	-.2677	.1703	.0365		.0679	-.1353
.250	-.3618	.0714	.0063		.0001	-.4089
.300	-.2469	-.1134	-.0632		-.0861	-.3853
.350	-.2469	-.1134	-.0632		-.2147	-.4002
.400	-.2469	-.1134	-.0632		-.2095	-.4002



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AMES 11-07310A1481 -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .057 BETA ( 3 ) = 4.244 MACH = .8983 Q = 599.16 P = 1059.5 RN/L = 3.5834

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4292	.2798		.2217	-.0826	-.1451	
.025	-.2631	-.7189		-.8301	-.7103	-.5581	
.050	-.1845	-.6284		-.8372	-.6815	-.5472	
.100	-.1795	-.3561		-.4733	-.6758	-.4959	
.150	-.2829	-.3524		-.3221	-.6391	-.4836	
.200	-.4334	-.2451		-.1692	-.3121	-.5199	
.250	-.3568	-.1353	-.1852	-.1255	-.0713	-.1704	-.4715
.300	-.2658	-.1735	-.1469	-.1645	-.1276	-.1668	-.4469
.350		-.2328	-.2135	-.2461	-.2459	-.2057	-.4104

ALPHA ( 3 ) = 3.946 BETA ( 1 ) = -3.879 MACH = .89370 Q = 599.92 P = 1059.7 RN/L = 3.5860

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3761	.2211		.3095	.4417	.3898	
.025	.2418	.1554		.2667	.2148	.1163	
.050	.2266	.1453		.2382	.2079	.1413	
.100	.1032	.0652		.1583	.1496	.0910	
.150	-.0125	-.0052		.1092	.0974	.0197	
.200	-.1892	-.0590		.1179	.1295	-.0965	
.250	-.3194	-.0040	-.1694	.0759	.0320	.0536	-.2824
.300	-.2430	-.0525	-.0056	-.0188	-.0436	-.1657	-.2909
.350		-.1087	-.1009	-.1331	-.1783	-.2749	-.2862

ALPHA ( 3 ) = 3.951 BETA ( 2 ) = .176 MACH = .89370 Q = 599.92 P = 1059.7 RN/L = 3.5860

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4893	.3451		.4439	.3255	.2085	
.025	-.0695	-.3009		-.3315	-.3050	-.4884	
.050	.0778	-.0769		-.0498	-.2684	-.4466	
.100	-.0335	-.1153		-.0486	-.0760	-.1069	
.150	-.1533	-.1446		-.0380	-.0396	-.0785	
.200	-.2831	-.1727		.0195	.0587	-.1426	
.250	-.3324	-.0717	-.1630	-.3028	-.0474	-.0074	-.3917
.300	-.2425	-.1229	-.0904	-.0902	-.1063	-.2232	-.3787
.350		-.1725	-.1655	-.1933	-.2280	-.3361	-.3408

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV55)

ALPHA ( 2 ) = 3.956 BETA ( 3 ) = .235 MACH = .89970 Q = 599.92 P = 1058.7 RN/L = 3.5360

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z (B) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (C)

.000	.3756	.2294	.1466	-.1526	-.2281
.025	-.2956	-.7454	-.7425	-.6513	-.5372
.050	-.1936	-.6347	-.7570	-.6352	-.5153
.075	-.1453	-.5231	-.6040	-.6296	-.4663
.100	-.3759	-.3933	-.4166	-.6279	-.4559
.125	-.4583	-.2848	-.0982	-.3431	-.5339
.150	-.3129	-.1345	-.0800	-.0692	-.1882
.175	-.1877	-.0767	-.1557	-.1334	-.1190
.200	-.0704	-.0269	-.2253	-.2152	-.1515
.225				-.2417	-.2076
.250					-.3972

ALPHA ( 1 ) = 2.893 BETA ( 1 ) = -.3876 MACH = .89863 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z (B) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (C)

.000	.3429	.1802	.2452	.3842	.3284
.025	-.1973	.1202	.2478	.2007	.1081
.050	-.1790	.1190	.2097	.1946	.1301
.075	-.1428	.0812	.1414	.1315	.0762
.100	-.0501	-.0329	.0395	.0823	.0043
.125	-.2150	-.0809	.1074	.1227	-.1051
.150	-.0648	-.0059	.0693	.0178	.0335
.175	-.2415	-.0433	.0002	-.0510	-.2692
.200			-.0999	-.1709	-.2848
.225			-.0372	-.1888	-.2806
.250					-.2843

ALPHA ( 2 ) = 3.030 BETA ( 2 ) = .173 MACH = .89963 Q = 599.02 P = 1059.8 RN/L = 3.5893

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z (B) .1580 .3170 .4590 .6020 .6970 .8390 .9250

X (C)

.000	.4518	.2776	.3920	.2551	.1433
.025	-.1028	-.3190	-.3207	-.3708	-.4833
.050	-.0437	-.1174	-.0521	-.2916	-.4347
.075	-.0633	-.1501	-.0605	-.0929	-.1031
.100	-.0629	-.1762	-.0437	-.0503	-.0885
.125	-.4064	-.1747	.0131	.0386	-.1592
.150	-.2743	-.0774	-.0110	-.0319	.3618
.175	-.2441	-.1207	-.0764	-.1206	-.2326
.200		-.1587	-.1620	-.2470	-.3482
.225					-.3931

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ALPHA ( 5 ) = 8.015 BETA ( 3 ) = 4.230 MACH = .89853 Q = 599.02 P = 1059.9 RNU/L = 3.5893  
(XEB:55)

SECTION 1 ( 1 ) VERTICAL

Z/84 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/0V	1.000	.3379	.1822	.0851	-.2336	-.3250
.025	-.2670	-.7264	-.7560	-.5640	-.6374	-.5503
.050	-.1784	-.6938	-.7520	-.5655	-.6237	-.4865
.100	-.1801	-.4267	-.5655	-.4087	-.6201	-.5096
.200	-.3122	-.3746	-.4087	-.0935	-.2948	-.5718
.300	-.4204	-.2453	-.0935	-.1155	-.1527	-.4387
.400	-.3337	-.1437	-.1683	-.0741	-.1497	-.3884
.500	-.2744	-.1054	-.1646	-.1519	-.1650	-.3884
	-.2744	-.1054	-.2297	-.2338	-.2664	-.3406
	-.2744	-.1054	-.2338	-.2338	-.2664	-.3406

ALPHA ( 5 ) = 11.973 BETA ( 1 ) = -3.861 MACH = .89910 Q = 599.49 P = 1059.5 RNU/L = 3.5890

SECTION 1 ( 1 ) VERTICAL

Z/84 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/0V	1.000	.3525	.1356	.1653	.3135	.2643
.025	-.0224	-.0156	-.2121	.2000	.1193	.1217
.050	-.0452	-.0292	.1788	.1868	.1217	.0579
.100	-.0758	-.0460	.1164	.1266	.0703	-.0126
.200	-.1534	-.0914	.0857	.0703	.1128	-.1199
.300	-.2751	-.0888	.0970	.0651	.0167	-.3038
.400	-.4591	-.0982	-.1990	.0086	-.0568	-.3119
.500	-.6555	-.0415	.0015	-.0252	-.1865	-.3121
	-.6555	-.0415	-.0978	-.1450	-.1982	-.2989
	-.6555	-.0415	-.0978	-.1450	-.1982	-.2989

ALPHA ( 5 ) = 11.987 BETA ( 2 ) = .182 MACH = .89910 Q = 599.49 P = 1059.5 RNU/L = 3.5890

SECTION 1 ( 1 ) VERTICAL

Z/84 .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/0V	1.000	.3969	.2396	.3565	.2261	.0957
.025	-.0432	-.3225	-.3380	-.3623	-.4828	-.3930
.050	-.0858	-.1609	-.0940	-.2950	-.3930	-.1126
.100	-.0757	-.2021	-.0692	-.0975	-.0975	-.0989
.200	-.2284	-.2142	-.0564	-.0536	-.0341	-.1646
.300	-.3259	-.1706	.0093	.0341	-.0341	-.3237
.400	-.4591	-.0534	-.2026	-.0630	-.1211	-.3301
.500	-.6555	-.0415	-.0826	-.0977	-.2264	-.3301
	-.6555	-.0415	-.1752	-.2459	-.3280	-.3362
	-.6555	-.0415	-.1752	-.2459	-.3280	-.3362

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 12.005 BETA ( 3 ) = 4.250 MACH = .89910 Q = 589.49 P = 1059.5 RAY/L = 3.5890  
(XEBV55)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1500	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3728	.1532		.0228		-.3344	-.4193
.025	-.1275	-.5918		-.8593		-.6830	-.6124
.050	-.0438	-.4634		-.8411		-.6745	-.5677
.100	-.1316	-.3734		-.5900		-.6697	-.5234
.200	-.3019	-.3876		-.3117		-.6619	-.5644
.300	-.4567	-.2663		-.1029		-.2390	-.5407
.400	-.3393	-.1565	-.2247	-.0932	-.1529	-.0770	-.4136
.500	-.2797	-.1958	-.1856	-.1872	-.2070	-.1511	-.3776
.600		-.2546	-.2747	-.2750	-.2986	-.2432	-.3350

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(XEBV55) ( 13 AUG 75 )

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -10.000 SPDRK = 55.000  
BDFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = 4.000 MACH = .500

ALPHA ( 1 ) = -4.044 BETA ( 1 ) = -7.862 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .0145 -.1798 .0228 .2481 .1615  
.025 .4900 .4331 .4762 .4199 .3741  
.050 .4339 .3791 .4168 .3821 .3371  
.150 .2858 .2453 .2939 .2587 .1959  
.300 .1345 .1163 .1955 .1641 .0810  
.520 -.1497 .0384 .1360 .1363 -.0869  
.685 -.2880 -.0036 -.1710 .0480 .0306 .0427 .2931  
.775 -.2435 -.0561 -.0387 -.0596 -.1166 -.2672  
.900 -.1933 -.2114 -.2106 -.1883 -.2644

ALPHA ( 1 ) = -3.971 BETA ( 2 ) = -3.856 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3755 .2747 .4150 .5097 .4743  
.025 .3193 .2416 .2365 .1627 .0585  
.050 .2977 .2288 .2290 .1721 .1304  
.150 .1609 .1053 .1487 .1105 .0689  
.300 .0371 .0105 .0789 .0567 .0006  
.520 -.2136 -.0314 .0680 .0482 .1360  
.685 -.2916 -.0605 -.1698 -.0134 -.0271 .0066 .2981  
.775 -.2409 -.1051 -.0995 -.1121 -.1055 .1611 .2828  
.900 -.2271 -.2559 -.2512 -.2545 -.2076 .2696

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R OR3 VERTICAL (XEBV56)

ALPHA ( 1 ) = -3.944 BETA ( 3 ) = .179 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5049	.4668	.4923	.3272	.3169
.025	-.0163	-.3144	-.4551	-.3657	-.7308
.050	.1032	-.0183	-.1248	-.2300	-.4064
.150	.0231	-.0695	-.0616	-.1130	-.1131
.300	-.0823	-.1076	-.0625	-.0668	-.1136
.520	-.2886	-.1154	-.0309	-.0092	-.1814
.685	-.3040	-.1138	-.0911	-.0986	-.0745
.775	-.2372	-.1555	-.1573	-.1696	-.3101
.900		-.2647	-.3035	-.3008	-.1997
					-.2930
					-.2551

ALPHA ( 1 ) = -3.962 BETA ( 4 ) = 4.259 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3350	.1876	.0537	-.2271	-.2654
.025	-.3050	-.5818	-.6450	-.5761	-1.1182
.050	-.2467	-.4752	-.6065	-.5492	-.8937
.150	-.2215	-.3731	-.4343	-.4819	-.6946
.300	-.2096	-.2664	-.2754	-.3554	-.3621
.520	-.3501	-.1937	-.1820	-.2098	-.2014
.685	-.3195	-.1754	-.2035	-.1567	-.2002
.775	-.2505	-.2079	-.2124	-.2209	-.3268
.900		-.3129	-.3468	-.2677	-.2993
				-.3403	-.2670

ALPHA ( 1 ) = -3.967 BETA ( 5 ) = 8.330 MACH = .59674 Q = 594.66 P = 2385.6 RN/L = 4.8797

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0565	-.4525	-.5706	-.7155	-.4835
.025	-.5634	-1.0390	-.8932	-.7880	-.6012
.050	-.5739	-.8506	-.8799	-.7759	-.5849
.150	-.7441	-.8637	-.8611	-.7526	-.5409
.300	-.3463	-.5241	-.8237	-.6858	-.4887
.520	-.3970	-.2808	-.5574	-.5645	-.4033
.685	-.3275	-.2479	-.1736	-.4111	-.3570
.775	-.2732	-.2585	-.2462	-.3355	-.4706
.900		-.3486	-.3697	-.3787	-.3506
				-.4204	-.3421

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .082 BETA ( 1 ) = -7.901 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906  
(XEBV56)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 -.0414 -.2724 -.0826 .1587 .0926  
.025 .4488 .3999 .4439 .3907 .3433  
.050 .3966 .3503 .3851 .3591 .3060  
.150 .2437 .2145 .2709 .2414 .1768  
.300 .1055 .0965 .1781 .1502 .0702  
.520 .1599 .0379 .1145 .1273 -.0674  
.685 .2888 -.0065 -.1499 .0127 .0406 .2353  
.775 .2401 .0571 .0584 -.0745 -.0698 -.1003 .1985  
.900 -.1979 -.2438 -.2439 -.2175 -.1539 .1737

ALPHA ( 2 ) = .093 BETA ( 2 ) = -3.873 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3100 .1981 .3360 .4433 .3969  
.025 .2758 .2125 .2384 .1554 .0899  
.050 .2500 .1957 .2100 .1578 .1105  
.150 .1239 .0843 .1258 .0961 .0533  
.300 .0095 -.0095 .0627 .0418 -.0126  
.520 .2250 -.0435 .0507 .0451 .1292  
.685 .2895 .0612 -.1525 .0262 -.0471 .2779  
.775 .2352 .1067 .1056 .1318 .1176 .1574 .2640  
.900 -.2286 -.2662 .2693 .2599 .1998 .2446

ALPHA ( 2 ) = .095 BETA ( 3 ) = .179 MACH = .59728 Q = 595.74 P = 2385.6 RN/L = 4.8906

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4616 .4158 .4454 .2780 .2615  
.025 .0450 .3186 .4204 .3619 .6817  
.050 .0558 .0523 .1331 .2316 .3758  
.150 .0155 .0922 .0698 .1079 .1246  
.300 .1149 .1272 .0712 .0759 .1131  
.520 .2898 .1213 .0376 .0178 .1734  
.685 .2364 .1154 .1548 .1110 .0802 .2768  
.775 .2429 .1527 .1702 .1841 .1936 .2672  
.900 -.2660 .2660 .3111 .3207 .2226 .2280

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .092 BETA ( 4 ) = 4.242 MACH = .59728 Q = 595.74 P = 2385.6 RVL = 4.8906  
(XEBV56)

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV

.000 .2966 .1208 .0352 .2745 .3371  
.025 .3394 .5860 .7548 .5865 .1.0201  
.050 .2961 .5189 .6605 .5566 .8034  
.150 .2497 .3918 .4750 .5028 .7263  
.300 .2390 .2628 .2484 .4224 .3169  
.520 .3583 .1929 .1736 .2185 .1809  
.685 .3143 .1691 .1575 .1732 .2188 .3146  
.775 .2576 .1958 .2242 .2333 .2552 .2881  
900 .3056 .3564 .3926 .3481 .2480 .2552

ALPHA ( 2 ) = .089 BETA ( 5 ) = 8.296 MACH = .59728 Q = 595.74 P = 2385.6 RVL = 4.8906

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV

.000 .0947 .5350 .6452 .7341 .5590  
.025 .5961 .1.1459 .8924 .7620 .5811  
.050 .6125 .9172 .8965 .7502 .5572  
.150 .7567 .9598 .8998 .7223 .5155  
.300 .3920 .5009 .8984 .6851 .4661  
.520 .4149 .2600 .5612 .5522 .3913  
.685 .3211 .2340 .3854 .4855 .3616  
.775 .2728 .2394 .3137 .3441 .4563 .3499  
900 .3417 .3957 .3536 .3732 .4021 .3355

ALPHA ( 3 ) = 4.036 BETA ( 1 ) = -7.914 MACH = .59696 Q = 595.02 P = 2385.3 RVL = 4.8697

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
X/CV

.000 .0904 .3367 .1987 .1065 .0468  
.025 .4177 .3617 .4133 .3574 .3040  
.050 .3596 .3190 .3583 .3251 .2762  
.150 .2126 .1839 .2448 .2205 .1551  
.300 .0813 .0771 .1599 .1327 .0593  
.520 .1595 .0275 .1030 .1171 .0522  
.685 .2801 .0059 .1429 .0227 .0001 .0351 .1965  
.775 .2310 .0578 .0666 .0896 .0799 .0957 .1555  
900 .2043 .2585 .2525 .2291 .1280 .1351



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.041 BETA ( 2 ) = -3.873 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897  
(XEBV58)

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2676	.1363	.2645	.3775	.3313		
.000	.2385	.1927	.2220	.1444	.0677		
.025	.2110	.1621	.1900	.1437	.0953		
.050	.1865	.1323	.1595	.1095	.0444		
.150	.0865	.0623	.0522	.0312	-.0262		
.300	-.0250	-.0238	.0279	.0661	-.1165		
.520	-.2388	-.0423	-.0377	-.0540	-.0081		
.685	-.2948	-.0627	-.1466	-.1302	-.1408		
.775	-.2351	-.1037	-.1156	-.1338	-.2338		
.900		-.2289	-.2777	-.2509	-.1784		

ALPHA ( 3 ) = 4.096 BETA ( 3 ) = .178 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4288	.3742	.3968	.2349	.2087		
.000	.0658	.3161	.3893	.3525	.6077		
.025	.050	.0654	.1222	.2392	.3397		
.150	.0374	.1067	.0746	.1024	.1293		
.300	.1330	.1363	.0746	.0776	.1182		
.520	.2995	.1225	.0529	.0189	.1650		
.685	.2919	.1121	-.1048	-.1206	-.0722		
.775	.2291	.1500	.1967	-.1890	-.2717		
.900		-.2576	.3150	-.3157	-.2286		

ALPHA ( 3 ) = 3.977 BETA ( 4 ) = 4.232 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2577	.0823	.0910	.3486	-.4061		
.000	.3472	.5964	.7265	.5843	-.8768		
.025	.3214	.5519	.6694	.5614	-.7190		
.150	.2720	.3813	.4848	.5421	-.7489		
.300	.2623	.2630	.2437	.5211	-.2538		
.520	.3508	.1818	.1796	.1660	-.1999		
.685	.2736	.1655	-.1553	-.1883	-.1642		
.775	.2436	.1967	-.2274	-.2411	-.2044		
.900		.3020	-.3621	-.3470	-.2091		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.011 BETA ( 5 ) = 8.279 MACH = .59696 Q = 595.02 P = 2385.3 RN/L = 4.8897  
 (XEBV56)

SECTION 1 ( 1 ) VERTICAL  
 Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9256  
 X/CV

.000	-.1431	-.5831	-.7016	-.7542	-.6404
.025	-.6439	-1.1469	-.9026	-.7306	-.5664
.050	-.6593	-.9486	-.9105	-.7193	-.5315
.150	-.7936	-1.0319	-.9219	-.7191	-.4934
.300	-.9391	-.4564	-.9388	-.6804	-.4463
.520	-.4109	-.2645	-.5211	-.5664	-.3769
.695	-.3159	-.2281	-.3088	-.4136	-.4854
.775	-.2745	-.2515	-.2470	-.4501	-.3466
.900	-.3429	-.4116	-.2961	-.3754	-.3270

ALPHA ( 4 ) = 8.004 BETA ( 1 ) = -7.903 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION 1 ( 1 ) VERTICAL  
 Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	-.1448	-.4648	-.2805	-.0255	-.0055
.025	.3764	.3324	.3738	.3264	.2771
.050	.3233	.2872	.3323	.3007	.2488
.150	.1854	.1697	.2351	.2013	.1368
.300	.0718	.0721	.1525	.1237	.0427
.520	-.1698	.0254	.0226	.1088	-.0679
.695	-.2769	.0017	.0282	.0264	-.1966
.775	-.2317	-.3450	-.0595	-.0757	-.0880
.900	-.1869	-.2364	-.2137	-.1842	-.1632

ALPHA ( 4 ) = 8.017 BETA ( 2 ) = -3.872 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.8929

SECTION 1 ( 1 ) VERTICAL  
 Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000	.2299	.0773	.1948	.3161	.2674
.025	.1929	.1670	.2125	.1506	.0761
.050	.1718	.1421	.1792	.1407	.0917
.150	.0575	.0463	.1039	.0708	.0334
.300	-.0334	-.0289	.0507	.0238	-.0323
.520	-.2270	-.0396	.0259	.0533	.1209
.695	-.2318	-.0517	-.0402	.0148	-.2331
.775	-.2238	-.0949	-.1361	-.1231	-.1348
.900	-.2156	-.2698	-.2603	-.1737	-.2048

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV56)

ALPHA ( 4 ) = 7.965 BETA ( 3 ) = .166 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.6929

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.4032	.3320	.3539	.2005	.1626	
.025	-.0596	-.3028		-.3545	-.3470	-.5326	
.050	.0201	-.0750		-.1002	-.2180	-.3013	
.100	-.0568	-.1155		-.0743	-.1056	-.1181	
.300	-.1467	-.1422		-.0790	-.0799	-.1157	
.520	-.3017	-.1129		-.0540	-.0231	-.1697	
.685	-.2721	-.1077	-.1339	-.1077	-.1323	-.0738	-.2482
.775	-.2082	-.1431	-.1741	-.1942	-.1881	-.1905	-.2411
.900		-.2510	-.3178	-.3257	-.3114	-.2252	-.2235

ALPHA ( 4 ) = 7.931 BETA ( 4 ) = 4.229 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.6929

SECTION 4 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.2569	.0561	-.1055	-.3995	-.4597	
.025	-.3562	-.6156		-.6742	-.5743	-.7781	
.050	-.3175	-.5933		-.6236	-.5625	-.6509	
.100	-.2592	-.3624		-.4800	-.5877	-.7501	
.300	-.6668	-.2735		-.2536	-.5150	-.2166	
.520	-.3593	-.1718		-.1815	-.0823	-.2321	
.685	-.2576	-.1613	-.1398	-.1948	-.2153	-.0937	-.2913
.775	-.2431	-.1936	-.2271	-.2557	-.2635	-.1746	-.2729
.900		-.2903	-.3578	-.3532	-.3598	-.1940	4.2719

ALPHA ( 4 ) = 7.987 BETA ( 5 ) = 8.286 MACH = .59678 Q = 594.78 P = 2385.7 RN/L = 4.6929

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	-.1905	-.6317	-.7657	-.7948	-.7345	
.025	-.6801	-.10778		-.8938	-.7150	-.5384	
.050	-.6860	-.5480		-.9035	-.7169	-.5339	
.100	-.8220	-.10417		-.9376	-.7294	-.4982	
.300	-.3995	-.4265		-.9840	-.7096	-.4634	
.520	-.3920	-.2770		-.4241	-.6003	-.4001	
.685	-.1907	-.2397	-.1589	-.2057	-.4253	-.3691	
.775	-.2971	-.2578	-.2892	-.1861	-.3515	-.3472	
.900		-.3455	-.3839	-.2566	-.3427	-.3839	-.3388

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV56)

ALPHA ( 5 ) = 11.920 BETA ( 1 ) = -7.867 MACH = .59670 Q = .594.67 P = 2385.8 RN/L = 4.8946

SECTION 1 VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1890	-.5669	-.3578	-.0531	-.0630
.025	.2908	.3057	.3457	.3011	.2419
.050	.2428	.2754	.3153	.2790	.2233
.100	.1020	.1488	.2221	.1853	.1152
.200	.0127	.0671	.1467	.1115	.0263
.300	-.1738	.0442	.0853	.0978	-.0823
.400	-.2639	.0224	-.1475	-.0040	.0181
.500	-.2533	-.0181	-.0512	-.0642	-.2092
		-.1622	-.2303	-.2071	-.0930
				-.1771	-.1878
				-.1396	-.1946

ALPHA ( 5 ) = 11.942 BETA ( 2 ) = -3.850 MACH = .59670 Q = .594.67 P = 2385.8 RN/L = 4.8946

SECTION 1 VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2465	.0472	.1400	.2491	.2014
.025	.1879	.1543	.1981	.1374	.0778
.050	.1633	.1254	.1721	.1284	.0750
.100	.0333	.0332	.0904	.0614	.0133
.200	-.0714	-.0410	.0427	.0118	-.0453
.300	-.2563	-.0406	.0215	.0354	-.1294
.400	-.2755	-.0434	-.1354	-.0710	-.0333
.500	-.2162	-.0818	-.1100	-.1341	-.2327
		-.1958	-.2634	-.1460	-.2348
				-.2585	-.2106
				-.1760	-.2106

ALPHA ( 5 ) = 12.055 BETA ( 3 ) = .165 MACH = .59670 Q = .594.67 P = 2385.8 RN/L = 4.8946

SECTION 1 VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2495	.2970	.3156	.1582	.1121
.025	-.0621	-.2903	-.3469	-.3519	-.5061
.050	.0111	-.0854	-.1091	-.2234	-.2970
.100	-.0683	-.1298	-.0782	-.1219	-.1216
.200	-.1592	.1506	-.0834	-.0924	-.1239
.300	-.3076	.1148	-.0659	-.0305	-.1611
.400	-.2755	.1051	-.1355	-.1155	-.1372
.500	-.2130	.1400	-.1753	-.1960	-.2518
		-.2458	-.3181	-.1898	-.2388
				-.3155	-.2252

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XE8V56)

ALPHA ( 5 ) = 12.053 BETA ( 4 ) = 4.239 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8948

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2766	.0379	-.1467	-.4842	-.5125
.025	-.3487	-.6407	-.6245	-.6061	-.6786
.050	-.3044	-.6085	-.5903	-.5894	-.5952
.100	-.2555	-.3591	-.5420	-.6630	-.6943
.200	-.2777	-.2779	-.2752	-.5174	-.2688
.300	-.3653	-.1875	-.1733	-.0356	-.2568
.400	-.2549	-.1647	-.1856	-.2252	-.0723
.500	-.2460	-.1905	-.2390	-.2443	-.3300
			-.3626	-.2691	-.2959
				-.3417	-.2745

ALPHA ( 5 ) = 12.101 BETA ( 5 ) = 8.299 MACH = .59670 Q = 594.67 P = 2385.8 RN/L = 4.8948

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1893	-.6763	-.8581	-.8505	-.7854
.025	-.7242	-1.0477	-.9327	-.7316	-.5383
.050	-.7638	-.9544	-.9434	-.7247	-.5263
.100	-.5824	-1.0492	-1.0062	-.7502	-.5212
.200	-.5005	-.4505	-1.0479	-.7587	-.4867
.300	-.5034	-.2752	-.2058	-.6119	-.4327
.400	-.3854	-.2624	-.1417	-.4513	-.3774
.500	-.4352	-.2935	-.1771	-.3295	-.4639
			-.3889	-.3050	-.3875
					-.3541

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148 - 140A/B/C/R ORB VERTICAL

(XEBV57) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 55.000  
 BOFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = 1.400

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.843 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9059  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .7933 .6712 .6475 .6640 .5526  
 .025 .6073 .5201 .4637 .7542 .7447  
 .050 .6241 .5167 .4578 .7428 .7190  
 .100 .6253 .4200 .5030 .7125 .6498  
 .150 .3854 .3306 .6905 .7149 .6116  
 .200 .2208 .3599 .8745 .8038 .4980  
 .250 .1301 .8709 .8776 .8232 .7583  
 .300 .1201 .7427 .7754 .7371 .5895  
 .350 .6310 .6274 .5758 .3810 .4396

ALPHA ( 2 ) = -3.938 BETA ( 2 ) = .202 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9053  
 SECTION ( 2 ) VERTICAL

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .000 .6323 .7407 .7042 .7569 .7567  
 .025 .6700 .6456 .0291 .4481 .5150  
 .050 .6408 .5503 .0748 .5026 .5528  
 .100 .4700 .2742 .2231 .5955 .5708  
 .150 .2520 .2102 .5735 .6495 .5777  
 .200 .1482 .3422 .7459 .7300 .4566  
 .250 .3169 .1557 .7824 .6905 .1672  
 .300 .2056 .7630 .7580 .5760 .3282  
 .350 .5711 .6248 .6085 .5616 .4247

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = 4.001 BETA ( 3 ) = 4.282 MACH = 1.3927 Q = 599.59 P = 441.59 RN/L = 2.9055  
(XEBV57)

SECTION 11 VERTICAL		DEPENDENT VARIABLE CP	
Z/BV			
.1580	.3170	.4590	.6020
.1580	.3170	.6970	.8390
.1580	.3170	.9250	
X/CV			
.000	.7672	.6675	.6134
.025	.0322	-.0711	-.2591
.050	.1139	-.0796	-.3019
.075	.2136	.0304	-.0021
.100	.2118	.0849	.1979
.125	.0475	.0539	.5022
.150	-.3725	.6351	-.1561
.175	-.3293	.5470	.6876
.200		.5633	.5938
		.4792	.4380
		.5450	.5010
		.5329	.1276
		.1766	.3350
		.3869	.3893
		.2712	.3792
		.2679	.3686
		.6023	.5575

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.863 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION 11 VERTICAL		DEPENDENT VARIABLE CP	
Z/BV			
.1580	.3170	.4590	.6020
.1580	.3170	.6970	.8390
.1580	.3170	.9250	
X/CV			
.000	.7157	.5920	.5734
.025	.5169	.4430	.3883
.050	.5408	.4444	.3833
.075	.4480	.3436	.3317
.100	.3104	.2564	.6569
.125	.1513	.2517	.8084
.150	-.3434	.7854	-.1505
.175	-.2518	.6727	.7475
.200		.5823	.6184
		.5831	.5334
		.6858	.5549
		.7654	.6845
		.7370	.4588
		.6610	.5402
		.6453	.5897
		.6626	.6535
		.6726	.6760
		.5859	.4855

ALPHA ( 2 ) = .021 BETA ( 2 ) = .195 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.9062

SECTION 11 VERTICAL		DEPENDENT VARIABLE CP	
Z/BV			
.1580	.3170	.4590	.6020
.1580	.3170	.6970	.8390
.1580	.3170	.9250	
X/CV			
.000	.7567	.6681	.6242
.025	.2059	.0962	-.0232
.050	.3948	.2903	.0101
.075	.3707	.2129	.1632
.100	.2057	.1454	.4395
.125	.0597	.1971	.6607
.150	-.0420	.664	.7014
.175	-.3020	.5311	.6994
.200		.5749	.5862
		.6801	.6801
		.6635	.6156
		.5308	.5308
		.3397	.3397
		.5215	.4404
		.5906	.5215
		.5087	.5070
		.3686	.4735
		.3365	.4319
		.6337	.6276

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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

ALPHA (2) = .016 BETA (3) = 4.262 MACH = 1.3931 Q = 599.59 P = 441.36 RVL = 2.9062  
(XEBV57)

## SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/84	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6911	.5937	.5380	.4999	.4371	
	.025	-.0308	-.1358	-.2930	.1704	.2894	
	.050	.0282	-.1351	-.3353	.1779	.2996	
	.075	.1192	-.0295	-.0920	.1760	.3133	
	.100	.1634	.0448	.1133	.0349	.2476	
	.125	.0054	-.0092	.4175	.5319	.0704	
	.150	-.0418	.5601	.4885	.5311	-.1325	
	.175	-.1341	.4544	.6074	.5193	-.2875	
	.200		.3923	.4999	.4634	-.4137	

ALPHA (2) = 3.900 BETA (1) = -3.867 MACH = 1.3926 Q = 599.48 P = 441.59 RVL = 2.9063

## SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/84	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6270	.5270	.4995	.5113	.4164	
	.025	.3727	.3622	.3049	.5774	.6039	
	.050	.4183	.3676	.3044	.5738	.5819	
	.075	.7446	.2712	.2466	.5729	.5275	
	.100	.6793	.1407	.3886	.5882	.5015	
	.125	.3327	.1813	.7341	.6726	.4051	
	.150	.0102	.0195	.7531	.6227	-.1992	
	.175	-.2774	.5470	.6893	.6259	.5088	
	.200		.5157	.5704	.4834	.3249	

ALPHA (2) = .005 BETA (3) = .197 MACH = 1.3926 Q = 599.48 P = 441.59 RVL = 2.9063

## SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/84	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5717	.5993	.5307	.4836	.5226	
	.025	.1675	.1535	-.0562	.1688	.3479	
	.050	.2373	.2552	-.0429	.1882	.3973	
	.075	.3459	.4054	.1096	.4713	.4370	
	.100	.1702	.5993	.2845	.5364	.4462	
	.125	.0150	.6796	.5698	.5594	.3247	
	.150	-.0427	.5703	.6202	.5254	-.1776	
	.175	-.3509	.6231	.6480	.4695	-.3506	
	.200		.5158	.5199	.4753	-.4392	



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## TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV57)

ALPHA ( 4 ) = 3.907 BETA ( 3 ) = 4.252 MACH = 1.3926 Q = 599.48 P = 441.59 RN/L = 2.8963

## SECTION ( 1 ) VERTICAL

Z/B	1580	3170	4590	6020	6970	8390	9250
X/CV							
000	.5916	.5375	.4539	.3898	.3526		
025	-.1092	-.1598	-.3403	-.0548	.1980		
050	-.0243	-.1467	-.3732	.0671	.2122		
100	.1442	-.0357	-.1518	.0217	.2349		
200	.0392	-.0170	.0316	-.0382	.1549		
300	-.0748	-.0840	.3652	.4877	.1105		
400	-.3751	.4400	.5209	.4416	.4722		
500	-.13505	.3747	.5196	.5005	.4279		
	.3043	.4331	.4913	.4475	.2798		

ALPHA ( 4 ) = 7.945 BETA ( 1 ) = -3.862 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

## SECTION ( 1 ) VERTICAL

Z/B	1580	3170	4590	6020	6970	8390	9250
X/CV							
000	.6023	.4933	.4267	.4274	.3445		
025	.2648	.2839	.2311	.4887	.5275		
050	.3352	.3350	.2361	.4897	.5133		
100	.2546	.2138	.1804	.5027	.4634		
200	.1534	.1233	.2553	.5358	.4407		
300	.0431	.1112	.6561	.6116	.3499		
400	-.4070	.6478	.6331	.6294	.2056		
500	-.3745	.5743	.6325	.5688	.4541		
	.4784	.5247	.4816	.4371	.2858		

ALPHA ( 4 ) = 7.917 BETA ( 2 ) = .187 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

## SECTION ( 1 ) VERTICAL

Z/B	1580	3170	4590	6020	6970	8390	9250
X/CV							
000	.6693	.5220	.4476	.3818	.4314		
025	.1839	.0351	-.0830	.0055	.2775		
050	.3473	.2074	-.0792	.0202	.3170		
100	.2358	.1125	.0559	.3972	.3501		
200	.1149	.0453	.1262	.4640	.3945		
300	.0128	.0074	.4741	.4763	.2517		
400	-.1628	.0536	.5153	.4443	.1994		
500	-.4281	.4157	.5814	.5437	.4142		
	.4256	.4747	.4485	.4237	.2723		

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TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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(XEBV57)

ANES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 4 ) = 7.948 BETA ( 3 ) = 4.251 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8959

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.5610	.5071	.3853	.2919	.3063
.025	.0967	-.1513	-.3546	-.1011	.1309
.050	.1430	-.1288	-.3858	-.0954	.1354
.150	.2449	-.0099	-.1678	-.1290	.1448
.300	.0476	-.0568	-.0810	-.0141	-.0651
.520	-.1154	-.1201	.3309	.4456	.2083
.695	-.3337	.3910	-.1579	.4064	.4180
.875	-.3653	.3063	.4431	.4870	.3821
.900		.2383	.3615	.4179	.2506

ALPHA ( 5 ) = 11.907 BETA ( 1 ) = -3.847 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.5564	.4582	.3622	.3468	.2747
.025	.1327	.2593	.1850	.4190	.4627
.050	.1154	.2713	.1850	.4249	.4520
.150	.2549	.1659	.1261	.4438	.4095
.300	.0937	.0536	.1862	.4779	.3903
.520	-.0742	.0423	.5952	.5484	.3033
.695	-.1435	.6385	-.1811	.5688	.4898
.875	-.3360	.5338	.5994	.5203	.4048
.900		.4632	.4964	.3939	.2510

ALPHA ( 6 ) = 11.690 BETA ( 2 ) = .186 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.6776	.4800	.3783	.3043	.3836
.025	.1656	.0143	-.1096	-.0852	.2147
.050	.3263	.1739	-.1150	-.0786	.2487
.150	.2843	.0843	.0110	.3189	.2995
.300	.0912	.0008	.0205	.4059	.3430
.520	-.0749	-.0512	.3956	.4114	.1944
.695	-.4379	.4529	.4613	.4473	.3758
.875	-.3464	.3679	.4777	.4913	.3677
.900		.3012	.3942	.3785	.2433

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV57)

ALPHA ( 5 ) = 11.884 BETA ( 3 ) = 4.265 MACH = 1.3946 Q = 600.23 P = 440.88 RN/L = 2.9052

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6274 .4761 .3151 .2150 .2371  
 .025 .1153 .1518 .3553 .1843 .0677  
 .050 .1737 .1409 .3869 .1779 .0732  
 .150 .2262 .0359 .1980 .1938 .0675  
 .300 .0495 .0782 .1280 .0292 .1552  
 .520 .1444 .1499 .2595 .3794 .1920  
 .685 .4112 .3319 .1780 .3467 .3553 .2240  
 .775 .3578 .2526 .3789 .4591 .3207 .3794  
 .900 .1824 .3131 .3676 .3593 .2026 .4670

ALPHA ( 6 ) = 15.871 BETA ( 1 ) = -3.822 MACH = 1.3964

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7700 .5181 .3344 .2655 .2248  
 .025 .1969 .1278 .1399 .3002 .4118  
 .050 .0526 .2603 .1427 .3316 .4045  
 .150 .2379 .1135 .0840 .4167 .3739  
 .300 .0000 .0142 .1297 .4406 .3571  
 .520 .1005 .0595 .5560 .5100 .2728  
 .685 .4162 .6509 .6010 .4497 .2434  
 .775 .3216 .5783 .6354 .4963 .3769 .4160  
 .900 .4847 .5186 .4401 .3667 .2333 .4998

ALPHA ( 6 ) = 15.883 BETA ( 2 ) = .187 MACH = 1.3964

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .7044 .5015 .3310 .2422 .2597  
 .025 .0900 .0238 .1472 .1496 .1454  
 .050 .2920 .1518 .1548 .1538 .1627  
 .150 .2797 .0580 .0264 .2474 .2888  
 .300 .0746 .0335 .0385 .3563 .3023  
 .520 .1174 .0871 .3481 .3623 .1506  
 .685 .4476 .4370 .4141 .2952 .3193 .2264  
 .775 .3602 .3536 .4873 .4551 .3278 .3818  
 .900 .2907 .3745 .3779 .3457 .2230 .4796

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV57)

ALPHA ( 6 ) = 15.915 BETA ( 3 ) = 4.292 MACH = 1.3964 0 = 598.94 P = 438.77 RN/L = 2.9066

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/8V	.000	.7744	.5307	.2866	.1608	.1770	
.025	.1198	-.1624	-.3641	-.2369	-.2231	.0183	
.050	.2578	-.1204	-.3940	-.2231	-.2231	.0261	
.150	.2839	.0083	-.2153	-.2430	-.2430	.0176	
.300	.0760	-.0772	-.1495	-.0389	-.0389	.1899	
.520	-.1420	-.1579	.2389	.3473	.3473	.1881	
.685	-.4526	.3440	-.1975	.3635	.3635	.3224	-.2611
.775	-.3768	.2460	.3478	.4162	.4050	.2903	-.4070
.900		.1676	.2711	.3307	.3198	.1843	-.5045

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV58) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0663 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDRK = 55.000  
 BDFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = 1.250

ALPHA ( 1 ) = -4.015 BETA ( 1 ) = -3.834 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7661	.6255	.6318	.5097	.6018	.4785
.025	.5938	.4610	.5995	.5237	.4626	.7153	.6859
.050	.5995	.4610	.5995	.5237	.4626	.6962	.6579
.150	.4842	.3629	.5604	.5604	.5604	.6562	.5796
.300	.3284	.2775	.6481	.6481	.6481	.6446	.5349
.520	.1589	.6127	.8156	.8156	.8156	.7470	.4068
.665	-.3923	.8256	-.1693	.7596	.6851	.6851	-.3119
.775	-.1146	.6901	.7301	.7044	.6595	.5002	-.4591
.900		.5583	.5784	.5410	.4882	.2731	-.5416

ALPHA ( 1 ) = -4.012 BETA ( 2 ) = .202 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6194	.6929	.6656	.7422	.6979	
.025	.2830	.0823		-.0413	.4776	.4800	
.050	.4405	.2984		.0232	.5098	.5076	
.150	.3822	.2157		.3222	.5475	.5095	
.300	.2221	.1475		.5570	.5898	.5034	
.520	.0601	.4392		.7211	.6765	.3814	
.665	-.4330	.7232	-.1629	.7152	.6361	-.3037	
.775	-.1993	.6216	.7053	.6824	.4878	-.4570	
.900		.4954	.5462	.5211	.4715	-.5294	

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ALPHA ( 1 ) = -4.007 BETA ( 3 ) = 4.280 MACH = 1.2474 Q = 600.07 P = 550.87 RN/L = 3.0101  
(XEBV58)

SECTION 1: VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7506	.6199	.5754	.6498	.5940	
.025	.0750	.1595	.2444	.3335	.3294		
.050	.1067	.1510	.2692	.3352	.3379		
.150	.2039	.0018	.1035	.3664	.3645		
.300	.1458	.0241	.1460	.3581	.3592		
.520	.0221	.1899	.5629	.2653	.1252		
.685	.4794	.5915	.1640	.5191	.2161		
.775	.2665	.5297	.5444	.6424	.2084		
.900		.4177	.5017	.5288	.2111		

ALPHA ( 2 ) = .035 BETA ( 1 ) = -3.858 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

SECTION 1: VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7001	.5527	.5245	.5269	.4056	
.025	.5091	.3963	.3329	.3329	.6404	.6183	
.050	.5259	.3675	.3353	.3353	.6264	.5929	
.150	.4119	.2891	.4337	.4337	.5924	.5189	
.300	.2611	.2027	.5782	.5782	.5883	.4789	
.520	.0879	.3021	.7544	.7544	.6125	.3618	
.685	.4433	.7633	.1587	.7000	.6133	.3246	
.775	.1918	.6253	.6823	.6522	.6087	.4573	
.900		.5179	.5382	.4952	.4420	.2395	

ALPHA ( 3 ) = .040 BETA ( 2 ) = .189 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

SECTION 1: VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7604	.6229	.5818	.6446	.6245	
.025	.6560	.0274	.0924	.0924	.3768	.4117	
.050	.3789	.2305	.0460	.0460	.4186	.4375	
.150	.3240	.1472	.1004	.1004	.4819	.4486	
.300	.1645	.0841	.4788	.4788	.5298	.4510	
.520	.0021	.2899	.6387	.6387	.6108	.3250	
.685	.4735	.6312	.1509	.6706	.5708	.2969	
.775	.2570	.4518	.6512	.6375	.5917	.4463	
.900		.4737	.5043	.4793	.4280	.2285	

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## TABULATED PRESSURE DATA - 0A148 ( ANES 11-073-1 )

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ANES 11-073(0A148) - 140A/B/C/R ORB VERTICAL (XEBV58)

ALPHA ( 2 ) = .037 BETA ( 3 ) = 4.261 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0093

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.6825	.5510	.4945	.4945	.4472
.025	-.0282	-.1988	-.3740	.1707	.2489
.050	.0192	-.2014	-.4224	.1827	.2626
.150	.1330	-.0753	-.1065	.1685	.2816
.300	.0939	-.0194	.1103	.0878	.2323
.520	-.0760	-.0379	.4386	.5346	.0342
.685	-.5086	.5501	-.1476	.4642	.5230
.775	-.3253	.4560	.5787	.4535	.1547
.900		.3569	.4476	.4699	.4842
				.3638	-.4030
				.2657	-.4881

ALPHA ( 3 ) = 3.928 BETA ( 1 ) = -3.861 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.6301	.4944	.4436	.4521	.3372
.025	.3819	.3063	.2499	.5539	.5476
.050	.4195	.3156	.2497	.5445	.5265
.150	.3223	.2199	.2508	.5246	.4581
.300	.1910	.1327	.5161	.5310	.4231
.520	.0311	.1775	.6868	.6105	.3166
.685	-.5079	.6870	-.1708	.6373	.5524
.775	-.2440	.5695	.6317	.5525	.3396
.900		.4700	.4922	.3943	.4133
				.2096	-.4915
					-.5467

ALPHA ( 3 ) = 3.929 BETA ( 2 ) = .192 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000	.7140	.5586	.4978	.5391	.5348
.025	.1628	-.0115	-.1423	.2676	.3384
.050	.3403	.1875	-.1125	.3491	.3689
.150	.2774	.0940	.0380	.4103	.3834
.300	.1066	.0164	.3796	.1626	.3912
.520	-.0555	.1317	.5536	.5278	.2644
.685	-.5078	.5685	-.1689	.4917	.3147
.775	-.2953	.4720	.5911	.3942	.4773
.900		.3836	.4526	.1932	-.5336
				.3836	

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV58)

ALPHA ( 3 ) = 3.933 BETA ( 3 ) = 4.251 MACH = 1.2467 Q = 599.67 P = 551.34 RN/L = 3.0120

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6258	.4951	.4135	.3875	.3271	
.025	-.0881	-.2387	-.4133	.0742	.1884	
.050	.0042	-.2230	-.4626	.0796	.2029	
.150	.1099	-.1066	-.2180	.0770	.2188	
.300	.0428	-.0691	.0360	-.0687	.1235	
.520	-.1514	-.1407	.3815	.5031	.0320	
.685	-.4415	-.4683	-.1675	.4071	.4653	-.2426
.775	-.3513	.3668	.5066	.5439	.3740	-.4348
.900		.2655	.3966	.4180	.3512	.1768
						.5389

ALPHA ( 4 ) = 7.966 BETA ( 1 ) = -3.855 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6478	.4545	.3755	.3698	.2586	
.025	.3344	.2346	.1758	.4766	.4809	
.050	.3829	.2584	.1603	.4685	.4622	
.150	.2711	.1600	.1448	.4567	.3985	
.300	.1140	.0623	.4804	.4740	.3656	
.520	-.0204	.1609	.6201	.5417	.2629	
.685	-.5131	.6274	.6315	.4865	-.3455	
.775	-.3116	.5201	.5457	.3667	-.4843	
.900		.4279	.4017	.1781	-.5387	
						.5387

ALPHA ( 2 ) = 7.970 BETA ( 2 ) = .187 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6304	.4954	.4100	.4218	.4239	
.025	.1751	-.0377	-.1684	.1853	.2878	
.050	.2255	.1472	-.1507	.2458	.3112	
.150	.1240	.0442	-.0177	.3343	.3224	
.300	.0090	-.0358	.3721	.4107	.3250	
.520	-.2737	.0083	.4717	.4400	.1938	
.685	-.5102	.5026	.5117	.4082	-.3264	
.775	-.3198	.3986	.5292	.4772	-.4692	
.900		.3245	.4042	.1583	-.5267	
						.5267



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV58)

ALPHA ( 4 ) = 7.834 BETA ( 3 ) = 4.250 MACH = 1.2463 Q = 599.67 P = 551.57 RN/L = 3.0105

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6402	.4617	.3406	.2810	.2199
.025	.0821	-.2430	-.4421	-.0234	.1116
.050	.1277	-.2172	-.4891	-.0144	.1239
.150	.1680	-.0798	-.2578	-.0684	.1476
.300	-.0242	-.1212	-.0341	-.0852	.0187
.520	-.1931	-.1945	.3365	.4505	.1208
.685	-.4594	.3564	.4635	.3869	.4089
.775	-.3774	.2905	.4385	.4281	.3164
.900	.2249	.3419	.3644	.3335	.1331

ALPHA ( 5 ) = 11.923 BETA ( 1 ) = -3.838 MACH = 1.2454

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.6703	.4331	.3150	.2889	.1833
.025	-.2702	.1877	.1210	.4080	.4216
.050	.3474	.2107	.1234	.4021	.4050
.150	.2174	.1075	.0770	.3990	.3463
.300	.0423	.0018	.3377	.4192	.3146
.520	-.0788	.0919	.5655	.4864	.2136
.695	-.5153	.6178	.5797	.5158	.4303
.775	-.3275	.5002	.5014	.4466	.3244
.900	.4129	.4249	.3623	.3055	.1450

ALPHA ( 5 ) = 11.931 BETA ( 2 ) = .197 MACH = 1.2454

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5705	.4473	.3426	.2974	.3245
.025	.1537	-.0670	-.2025	.1127	.2312
.050	.3044	.1175	-.1932	.1329	.2584
.150	.2255	.0096	-.0579	.3002	.2703
.300	.0215	-.0703	.1760	.3642	.2672
.520	-.1478	-.0708	.4045	.3760	.1345
.685	-.5357	.4494	.4514	.4185	.3380
.775	-.3423	.3459	.4767	.4317	.2870
.900	.2846	.3605	.3464	.2985	.1300

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEB758)

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = 4.259 MACH = 1.2454 Q = 599.32 P = 552.04 RN/L = 3.0114

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6632	.4306	.2727	.1890	.1826
.025	.0584	-.2443	-.4508	-.0946	.0551
.050	.1250	-.2254	-.4875	-.0833	.0674
.100	.1643	-.0999	-.2916	-.1653	.0797
.300	-.0334	-.1513	-.1105	-.1209	-.0942
.500	-.2130	-.2292	.2859	.3760	.1256
.665	-.4857	.3476	.4101	.3284	-.3391
.775	-.5542	.2449	.4330	.4002	.2575
.900		.1774	.3119	.2916	.1055

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TABULATED PRESSURE DATA - 0A14B (AVES 11-073-1)

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(XEBVS9) (13 AUG 75)

## REFERENCE DATA

CRCF = 2090.0000 SQ. FT.  
 LREF = 474.8000 IN.  
 BREF = 936.0680 IN.  
 SCALE = .0300

PARAMETRIC DATA  
 RUDDER = 10.000  
 BOFLAP = 16.300  
 R-ELVN = -4.000  
 SPDRBK = 55.000  
 L-ELVN = 4.000  
 MACH = 1.100

ALPHA (1) = -4.026 BETA (1) = -3.831 MACH = 1.1006 Q = 600.08 P = 707.67 RN/L = 3.1805

## SECTION (1) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6896	.5507	.5756	.5129	.3777	
.025	.5271	.3677	.5059	.5059	.6309	.5995	
.050	.5177	.3776	.5059	.5059	.6167	.5676	
.150	.3815	.2910	.5061	.5628	.5628	.4818	
.300	.2348	.2267	.5638	.5441	.5441	.4278	
.520	.0737	.5502	.7363	.6486	.6486	.2855	
.655	.4481	.7363	.1989	.7285	.6694	.3785	
.775	-.0771	.6003	.6332	.5978	.5553	.3723	
.900		.4484	.4615	.4243	.3661	.1298	.6220

ALPHA (1) = -3.894 BETA (2) = .203 MACH = 1.1006

## SECTION (1) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.7449	.6177	.6419	.6812	.6245	
.025	.2467	-.0213	-.0098	-.0098	.4275	.4053	
.050	.3726	.1970	.2259	.2259	.4516	.4281	
.150	.2807	.1191	.3499	.3499	.4651	.4184	
.300	.1205	.0670	.4869	.4869	.4971	.4023	
.520	-.0334	.4506	.6625	.6625	.5972	.2792	
.685	-.4506	.6978	-.1961	.6793	.5324	.5619	
.775	-.1480	.5595	.6154	.5860	.5430	.3716	
.900		.4013	.4348	.4038	.3496	.1166	.5968

P = 707.67 RN/L = 3.1805

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV59)

ALPHA ( 1 ) = -4.013 BETA ( 3 ) = 4.281 MACH = 1.1006 Q = 600.08 P = 707.67 RN/L = 3.1805

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z (1)	.1580	.3170	.4590	.6020	.6970	.8390	.9250
1.000	.5398	.5395	.5057	.6138	.5381	.5381	.5381
1.005	.5395	.5392	.5054	.6135	.5378	.5378	.5378
1.010	.5392	.5389	.5051	.6132	.5375	.5375	.5375
1.015	.5389	.5386	.5048	.6129	.5372	.5372	.5372
1.020	.5386	.5383	.5045	.6126	.5369	.5369	.5369
1.025	.5383	.5380	.5042	.6123	.5366	.5366	.5366
1.030	.5380	.5377	.5039	.6120	.5363	.5363	.5363
1.035	.5377	.5374	.5036	.6117	.5360	.5360	.5360
1.040	.5374	.5371	.5033	.6114	.5357	.5357	.5357
1.045	.5371	.5368	.5030	.6111	.5354	.5354	.5354
1.050	.5368	.5365	.5027	.6108	.5351	.5351	.5351
1.055	.5365	.5362	.5024	.6105	.5348	.5348	.5348
1.060	.5362	.5359	.5021	.6102	.5345	.5345	.5345
1.065	.5359	.5356	.5018	.6099	.5342	.5342	.5342
1.070	.5356	.5353	.5015	.6096	.5339	.5339	.5339
1.075	.5353	.5350	.5012	.6093	.5336	.5336	.5336
1.080	.5350	.5347	.5009	.6090	.5333	.5333	.5333
1.085	.5347	.5344	.5006	.6087	.5330	.5330	.5330
1.090	.5344	.5341	.5003	.6084	.5327	.5327	.5327
1.095	.5341	.5338	.5000	.6081	.5324	.5324	.5324
1.100	.5338	.5335	.4997	.6078	.5321	.5321	.5321
1.105	.5335	.5332	.4994	.6075	.5318	.5318	.5318
1.110	.5332	.5329	.4991	.6072	.5315	.5315	.5315
1.115	.5329	.5326	.4988	.6069	.5312	.5312	.5312
1.120	.5326	.5323	.4985	.6066	.5309	.5309	.5309
1.125	.5323	.5320	.4982	.6063	.5306	.5306	.5306
1.130	.5320	.5317	.4979	.6060	.5303	.5303	.5303
1.135	.5317	.5314	.4976	.6057	.5300	.5300	.5300
1.140	.5314	.5311	.4973	.6054	.5297	.5297	.5297
1.145	.5311	.5308	.4970	.6051	.5294	.5294	.5294
1.150	.5308	.5305	.4967	.6048	.5291	.5291	.5291
1.155	.5305	.5302	.4964	.6045	.5288	.5288	.5288
1.160	.5302	.5299	.4961	.6042	.5285	.5285	.5285
1.165	.5299	.5296	.4958	.6039	.5282	.5282	.5282
1.170	.5296	.5293	.4955	.6036	.5279	.5279	.5279
1.175	.5293	.5290	.4952	.6033	.5276	.5276	.5276
1.180	.5290	.5287	.4949	.6030	.5273	.5273	.5273
1.185	.5287	.5284	.4946	.6027	.5270	.5270	.5270
1.190	.5284	.5281	.4943	.6024	.5267	.5267	.5267
1.195	.5281	.5278	.4940	.6021	.5264	.5264	.5264
1.200	.5278	.5275	.4937	.6018	.5261	.5261	.5261
1.205	.5275	.5272	.4934	.6015	.5258	.5258	.5258
1.210	.5272	.5269	.4931	.6012	.5255	.5255	.5255
1.215	.5269	.5266	.4928	.6009	.5252	.5252	.5252
1.220	.5266	.5263	.4925	.6006	.5249	.5249	.5249
1.225	.5263	.5260	.4922	.6003	.5246	.5246	.5246
1.230	.5260	.5257	.4919	.6000	.5243	.5243	.5243
1.235	.5257	.5254	.4916	.5997	.5240	.5240	.5240
1.240	.5254	.5251	.4913	.5994	.5237	.5237	.5237
1.245	.5251	.5248	.4910	.5991	.5234	.5234	.5234
1.250	.5248	.5245	.4907	.5988	.5231	.5231	.5231
1.255	.5245	.5242	.4904	.5985	.5228	.5228	.5228
1.260	.5242	.5239	.4901	.5982	.5225	.5225	.5225
1.265	.5239	.5236	.4898	.5979	.5222	.5222	.5222
1.270	.5236	.5233	.4895	.5976	.5219	.5219	.5219
1.275	.5233	.5230	.4892	.5973	.5216	.5216	.5216
1.280	.5230	.5227	.4889	.5970	.5213	.5213	.5213
1.285	.5227	.5224	.4886	.5967	.5210	.5210	.5210
1.290	.5224	.5221	.4883	.5964	.5207	.5207	.5207
1.295	.5221	.5218	.4880	.5961	.5204	.5204	.5204
1.300	.5218	.5215	.4877	.5958	.5201	.5201	.5201
1.305	.5215	.5212	.4874	.5955	.5198	.5198	.5198
1.310	.5212	.5209	.4871	.5952	.5195	.5195	.5195
1.315	.5209	.5206	.4868	.5949	.5192	.5192	.5192
1.320	.5206	.5203	.4865	.5946	.5189	.5189	.5189
1.325	.5203	.5200	.4862	.5943	.5186	.5186	.5186
1.330	.5200	.5197	.4859	.5940	.5183	.5183	.5183
1.335	.5197	.5194	.4856	.5937	.5180	.5180	.5180
1.340	.5194	.5191	.4853	.5934	.5177	.5177	.5177
1.345	.5191	.5188	.4850	.5931	.5174	.5174	.5174
1.350	.5188	.5185	.4847	.5928	.5171	.5171	.5171
1.355	.5185	.5182	.4844	.5925	.5168	.5168	.5168
1.360	.5182	.5179	.4841	.5922	.5165	.5165	.5165
1.365	.5179	.5176	.4838	.5919	.5162	.5162	.5162
1.370	.5176	.5173	.4835	.5916	.5159	.5159	.5159
1.375	.5173	.5170	.4832	.5913	.5156	.5156	.5156
1.380	.5170	.5167	.4829	.5910	.5153	.5153	.5153
1.385	.5167	.5164	.4826	.5907	.5150	.5150	.5150
1.390	.5164	.5161	.4823	.5904	.5147	.5147	.5147
1.395	.5161	.5158	.4820	.5901	.5144	.5144	.5144
1.400	.5158	.5155	.4817	.5898	.5141	.5141	.5141
1.405	.5155	.5152	.4814	.5895	.5138	.5138	.5138
1.410	.5152	.5149	.4811	.5892	.5135	.5135	.5135
1.415	.5149	.5146	.4808	.5889	.5132	.5132	.5132
1.420	.5146	.5143	.4805	.5886	.5129	.5129	.5129
1.425	.5143	.5140	.4802	.5883	.5126	.5126	.5126
1.430	.5140	.5137	.4799	.5880	.5123	.5123	.5123
1.435	.5137	.5134	.4796	.5877	.5120	.5120	.5120
1.440	.5134	.5131	.4793	.5874	.5117	.5117	.5117
1.445	.5131	.5128	.4790	.5871	.5114	.5114	.5114
1.450	.5128	.5125	.4787	.5868	.5111	.5111	.5111
1.455	.5125	.5122	.4784	.5865	.5108	.5108	.5108
1.460	.5122	.5119	.4781	.5862	.5105	.5105	.5105
1.465	.5119	.5116	.4778	.5859	.5102	.5102	.5102
1.470	.5116	.5113	.4775	.5856	.5099	.5099	.5099
1.475	.5113	.5110	.4772	.5853	.5096	.5096	.5096
1.480	.5110	.5107	.4769	.5850	.5093	.5093	.5093
1.485	.5107	.5104	.4766	.5847	.5090	.5090	.5090
1.490	.5104	.5101	.4763	.5844	.5087	.5087	.5087
1.495	.5101	.5098	.4760	.5841	.5084	.5084	.5084
1.500	.5098	.5095	.4757	.5838	.5081	.5081	.5081
1.505	.5095	.5092	.4754	.5835	.5078	.5078	.5078
1.510	.5092	.5089	.4751	.5832	.5075	.5075	.5075
1.515	.5089	.5086	.4748	.5829	.5072	.5072	.5072
1.520	.5086	.5083	.4745	.5826	.5069	.5069	.5069
1.525	.5083	.5080	.4742	.5823	.5066	.5066	.5066
1.530	.5080	.5077	.4739	.5820	.5063	.5063	.5063
1.535	.5077	.5074	.4736	.5817	.5060	.5060	.5060
1.540	.5074	.5071	.4733	.5814	.5057	.5057	.5057
1.545	.5071	.5068	.4730	.5811	.5054	.5054	.5054
1.550	.5068	.5065	.4727	.5808	.5051	.5051	.5051
1.555	.5065	.5062	.4724	.5805	.5048	.5048	.5048
1.560	.5062	.5059	.4721	.5802	.5045	.5045	.5045
1.565	.5059	.5056	.4718	.5799	.5042	.5042	.5042
1.570	.5056	.5053	.4715	.5796	.5039	.5039	.5039
1.575	.5053	.5050	.4712	.5793	.5036	.5036	.5036
1.580	.5050	.5047	.4709	.5790	.5033	.5033	.5033
1.585	.5047	.5044	.4706	.5787	.5030	.5030	.5030
1.590	.5044	.5041	.4703	.5784	.5027	.5027	.5027
1.595	.5041	.5038	.4700	.5781	.5024	.5024	.5024
1.600	.5038	.5035	.4697	.5778	.5021	.5021	.5021
1.605	.5035	.5032	.4694	.5775	.5018	.5018	.5018
1.610	.5032	.5029	.4691	.5772	.5015	.5015	.5015
1.615	.5029	.5026	.4688	.5769	.5012	.5012	.5012
1.620	.5026	.5023	.4685	.5766	.5009	.5009	.5009
1.625	.5023	.5020	.4682	.5763	.5006	.5006	.5006
1.630	.5020	.5017	.4679	.5760	.5003	.5003	.5003
1.635	.5017	.5014	.4676	.5757	.5000	.5000	.5000
1.640	.5014	.5011	.4673	.5754	.4997	.4997	.4997
1.645	.5011	.5008	.4670	.5751	.4994	.4994	.4994
1.650	.5008	.5005	.4667	.5748	.4991	.4991	.4991
1.655	.5005	.5002	.4664	.5745	.4988	.4988	.4988
1.660	.5002	.4999	.4661	.5742	.4985	.4985	.4985
1.665	.4999	.4996	.4658	.5739	.4982	.4982	.4982
1.670	.4996	.4993	.4655	.5736	.4979	.4979	.497

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TABULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

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AMES 11-073(04148) -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .043 BETA ( 3 ) = 4.25° MACH = 1.1009 Q = 600.03 P = 707.43 RN/L = 3.1794

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6279	.4779	.4189	.5203	.4766
.005	-.0631	-.3522	-.4072	.1961	.1677
.010	-.0300	-.3115	-.4278	.1995	.1809
.015	.0897	-.1275	-.2861	.2356	.2232
.020	-.0130	-.1132	-.2623	.2328	.2313
.025	-.0190	-.1035	.5089	.1708	.0009
.030	-.0507	-.0734	.4905	.0931	-.3418
.035	-.0730	-.0413	.5203	.5233	.1234
.040	-.0730	.4106	.3625	.3456	.0953
.045	-.0730	.3731			-.5781

ALPHA ( 3 ) = 3.965

BETA ( 1 ) = -3.853 MACH = 1.1009 Q = 500.17 P = 707.44 RN/L = 3.1827

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6099	.4761	.3949	.3589	.2263
.005	.2145	.2145	.2145	.4997	.4694
.010	.2071	.2071	.2071	.4850	.4417
.015	.2073	.2073	.3305	.4447	.3683
.020	.2073	.2073	.3305	.4393	.3750
.025	.2073	.2073	.3305	.4393	.3750
.030	.2073	.2073	.3305	.4393	.3750
.035	.2073	.2073	.3305	.4393	.3750
.040	.2073	.2073	.3305	.4393	.3750
.045	.2073	.2073	.3305	.4393	.3750
.050	.2073	.2073	.3305	.4393	.3750
.055	.2073	.2073	.3305	.4393	.3750
.060	.2073	.2073	.3305	.4393	.3750
.065	.2073	.2073	.3305	.4393	.3750
.070	.2073	.2073	.3305	.4393	.3750
.075	.2073	.2073	.3305	.4393	.3750
.080	.2073	.2073	.3305	.4393	.3750
.085	.2073	.2073	.3305	.4393	.3750
.090	.2073	.2073	.3305	.4393	.3750
.095	.2073	.2073	.3305	.4393	.3750
.100	.2073	.2073	.3305	.4393	.3750

ALPHA ( 3 ) = 3.965

BETA ( 2 ) = .193 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6279	.4779	.4189	.5203	.4766
.005	-.0631	-.3522	-.4072	.1961	.1677
.010	-.0300	-.3115	-.4278	.1995	.1809
.015	.0897	-.1275	-.2861	.2356	.2232
.020	-.0130	-.1132	-.2623	.2328	.2313
.025	-.0190	-.1035	.5089	.1708	.0009
.030	-.0507	-.0734	.4905	.0931	-.3418
.035	-.0730	-.0413	.5203	.5233	.1234
.040	-.0730	.4106	.3625	.3456	.0953
.045	-.0730	.3731			-.5781

ANES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(YESY59)

ALPHA = 3.085 BETA ( Z ) = 4.249 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

DEPENDENT VARIABLE CP

Z 34 1.000 3.170 4.530 5.020 5.970 6.330 9.250

X/C

0.00 5973 3249 3380 3599 3307  
 0.05 1000 1740 1533 0738 1071  
 0.10 1000 1740 1533 0805 1284  
 0.15 1000 1740 1533 0596 1596  
 0.20 1000 1740 1533 0277 1389  
 0.25 1000 1740 1533 0000 0556  
 0.30 1000 1740 1533 0000 0000  
 0.35 1000 1740 1533 0000 0000  
 0.40 1000 1740 1533 0000 0000  
 0.45 1000 1740 1533 0000 0000  
 0.50 1000 1740 1533 0000 0000  
 0.55 1000 1740 1533 0000 0000  
 0.60 1000 1740 1533 0000 0000  
 0.65 1000 1740 1533 0000 0000  
 0.70 1000 1740 1533 0000 0000  
 0.75 1000 1740 1533 0000 0000  
 0.80 1000 1740 1533 0000 0000  
 0.85 1000 1740 1533 0000 0000  
 0.90 1000 1740 1533 0000 0000  
 0.95 1000 1740 1533 0000 0000  
 1.00 1000 1740 1533 0000 0000

ALPHA = 3.085 BETA ( Z ) = 4.249 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

DEPENDENT VARIABLE CP

Z 34 1.000 3.170 4.530 5.020 5.970 6.330 9.250

X/C

0.00 5973 3249 3380 3599 3307  
 0.05 1000 1740 1533 0738 1071  
 0.10 1000 1740 1533 0805 1284  
 0.15 1000 1740 1533 0596 1596  
 0.20 1000 1740 1533 0277 1389  
 0.25 1000 1740 1533 0000 0556  
 0.30 1000 1740 1533 0000 0000  
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 0.85 1000 1740 1533 0000 0000  
 0.90 1000 1740 1533 0000 0000  
 0.95 1000 1740 1533 0000 0000  
 1.00 1000 1740 1533 0000 0000

ALPHA = 3.085 BETA ( Z ) = 4.249 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827

DEPENDENT VARIABLE CP

Z 34 1.000 3.170 4.530 5.020 5.970 6.330 9.250

X/C

0.00 5973 3249 3380 3599 3307  
 0.05 1000 1740 1533 0738 1071  
 0.10 1000 1740 1533 0805 1284  
 0.15 1000 1740 1533 0596 1596  
 0.20 1000 1740 1533 0277 1389  
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NAME : 1-073:CA149 (1) -14JA/B/C/P C22 VERT:CAL

$\Delta G^\circ = -7.3 \text{ kcal/mole}$ $\Delta G^\circ = -30.5 \text{ kJ/mole}$	$\Delta G^\circ = -4.247$ $\Delta G^\circ = -17.75 \text{ kJ/mole}$	$\Delta G^\circ = -1.0233$ $\Delta G^\circ = -4.28 \text{ kJ/mole}$	$\Delta G^\circ = -599.26$ $\Delta G^\circ = -2507 \text{ kJ/mole}$	$\Delta G^\circ = -721.35$ $\Delta G^\circ = -3000 \text{ kJ/mole}$	$\Delta G^\circ = -3.1817$ $\Delta G^\circ = -13.3 \text{ kJ/mole}$
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INDEPENDENT VARIABLE UP

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[illegible]
$$\begin{aligned} \chi^2_{\text{red}} &= 11.253 & \chi^2_{\text{red}} &= -3.932 & \text{MACH} &= 1.0972 & Q &= 599.33 & P &= 710.09 & \text{PN/L} &= 3.1878 \end{aligned}$$

OFFICE: V&A, AGLE CP

[illegible][illegible]

$\log_{10} \frac{Q}{P} = 1.97$      $\text{MACH} = 1.0972$      $Q = 598.33$      $P = 710.09$      $\text{EX/L} = 3.1878$

DEPENDENT VARIABLE CP

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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[illegible]

DATE 14 FEB 76

TABULATED P

- 0A148 ( AMES 11-073-1 )

PAGE 5950

ALPHA ( 5 ) = 11.855 BETA ( 3 ) =

0148, -140A/B/C/R ORB VERTICAL

(XE8V59)

H = 1.0972 Q = 598.33 P = 710.00 RN/L = 3.1878

SECTION ( 1 ) VERTICAL

PERCENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6274	.3557	.1950	.1486	.1494
.025	-.0192	-.4020	-.6043	-.1002	.0073
.050	.0688	-.3477	-.6348	-.0891	.0329
.100	.0612	-.2134	-.4689	-.1163	.0482
.150	.1516	-.2672	-.0825	-.1646	.1201
.200	-.3416	-.2342	.2859	.3425	-.0081
.250	-.5539	.3190	-.1699	.2973	.2987
.300	-.775	.2153	.3652	.3141	.4722
.350	-.5958	.1854	.2416	.1751	.5653
.400				.1900	-.0387
					-.5814



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6951

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE8V60) ( 13 AUG 75 )

## REFERENCE DATA

REF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0500 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = 3300

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = 4.000  
 R-ELVN = -4.000 MACH = .900

ALPHA ( 1 ) = -4.025 BETA ( 1 ) = -3.841 MACH = .89803 Q = 598.77 P = 1060.7 RN/L = 3.5631

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .4935 .3592 .3763 .4621 .4375 .4011 .3278 .3888 .2564 .4827 .0890 .5153 .4102 .3807 .3831 .1756 .3968 .3873

X/CV

.000 .4935 .3592 .3763 .4621 .4375 .4011 .3278 .3888 .2564 .4827 .0890 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .025 .3697 .2694 .4621 .4375 .4011 .3278 .3888 .2564 .4827 .0890 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .050 .3543 .2675 .4375 .4011 .3278 .3888 .2564 .4827 .0890 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .075 .2214 .1800 .4347 .5979 .5778 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .100 .1809 .1755 .4347 .5979 .5778 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .125 .0847 .1494 .5979 .5778 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .150 .1814 .5183 .5153 .4102 .3807 .3831 .1756 .3968 .3873  
 .175 .2436 .4563 .4338 .3831 .1756 .3968 .3873  
 .200 .2436 .2654 .2218 .1535 .0610 .3873

ALPHA ( 1 ) = -4.025

BETA ( 2 ) =

.202

MACH = .89803

Q =

598.77

P =

1060.7

RN/L =

3.5631

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV .5554 .4799 .5767 .5723 .5106 .2903 .2397 .3113 .2717 .3080 .2525 .3348 .2288 .4667 .1113 .4909 .4181 .3450 .3611 .3583

X/CV

.000 .5554 .4799 .5767 .5723 .5106 .2903 .2397 .3113 .2717 .3080 .2525 .3348 .2288 .4667 .1113 .4909 .4181 .3450 .3611 .3583  
 .025 .0414 .2191 .0031 .5723 .5106 .2903 .2397 .3113 .2717 .3080 .2525 .3348 .2288 .4667 .1113 .4909 .4181 .3450 .3611 .3583  
 .050 .1698 .0323 .2121 .0031 .5723 .5106 .2903 .2397 .3113 .2717 .3080 .2525 .3348 .2288 .4667 .1113 .4909 .4181 .3450 .3611 .3583  
 .075 .0739 .0225 .2510 .3551 .3348 .2288 .4667 .1113 .4909 .4181 .3450 .3611 .3583  
 .100 .0244 .0149 .3551 .5368 .5432 .5432 .3703 .1747 .3611 .3583  
 .125 .1865 .3613 .5368 .5432 .5432 .3703 .1747 .3611 .3583  
 .150 .1947 .6821 .5432 .5432 .3703 .1747 .3611 .3583  
 .175 .2326 .4220 .4134 .1953 .1356 .0574 .3583  
 .200 .2317 .2382 .1953 .1356 .0574 .3583

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AMES 11-073(OA148) -140A/B/C/R ORB VERTICAL (XE8V60)

SECTION (VERTICAL)

[illegible]

ALPHA ( 3 ) =	3.975	BETA ( 1 ) =	-3.861	MACH	=	.89723	Q	=	597.99	P	=	1061.2	RN/L	=	3.5607
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SECTION 1 : VERTICAL

Z/BV	X, CV	.1590	.3170	.4550	.5020	.5970	.8390	.9250
.000	.3956		.2372		.2051		.1488	.0432
.025	.2356		.1520		.4015		.4364	.3750
.050	.2320		.1532		.3743		.4150	.3450
.075	.1907		.0916		.3473		.3469	.2479
.100	.2064		.0637		.3828		.3128	.1771
.125	.1132		.4051		.5065		.3933	.0219
.150	.5244		.5244	-.1569	.4910	.4195	.3273	.3105
.175	-.2493		.4342	.4202	.3528	.3002	.1121	-.3093
.200		.2751	.2751	.2213	.1538	.0954	-.0965	-.2858

ALPHA ( 3 ) =	4.019	BETA ( 2 ) =	.193	MACH	=	.89723	Q	=	597.99	P	=	1061.2	RN/L	=	3.5607
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SECTION 1 INVERTICAL

[illegible]

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073:0A148) -140A/B/C/R ORB VERTICAL

(XEBV60)

ALPHA ( 3 ) = 3.944 BETA ( 3 ) = 4.252 MACH = .89723 Q = 597.99 P = 1061.2 RN/L = 3.5607

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2671	.2135		.2670	.3454	.2415	
.025	-.3074	-.7465		-.2656	.0109	-.1239	
.050	-.2191	-.7184		-.2502	.0125	-.0917	
.075	-.1686	-.6514		-.1998	.0317	-.0419	
.100	-.1347	-.5853		-.1201	.0277	.0581	
.125	-.1556	.2531		.2865	.0465	-.0782	
.150	-.2208	.2439	-.1850	.2497	-.0002	-.2765	
.175	-.2211	.3316	.35.0	.3556	.1774	-.0225	-.5071
.200		.1572	.1525	.1791	.0706	-.0997	-.5054

ALPHA ( 4 ) = 8.020 BETA ( 1 ) = -3.857 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8290	.9250
X/CV							
.000	.2328	.1767		.1557	.0635	-.0447	
.025	.1195	.1256		.3677	.3933	.3250	
.050	.1774	.1263		.3412	.3729	.2966	
.075	.0553	.0484		.3176	.3133	.2045	
.100	-.0462	.0308		.3564	.2766	.1386	
.125	-.1548	.3316		.4744	.3443	-.0087	
.150	-.2122	.5779	-.1795	.4535	.3788	.2791	-.2968
.175	-.2432	.4523	.4103	.3225	.2660	.0782	-.2923
.200		.2257	.2111	.1293	.0564	-.1158	-.2738

ALPHA ( 5 ) = 8.028 BETA ( 2 ) = .194 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4554	.2746		.3987	.3731	.3084	
.025	-.1165	-.3430		-.0334	.2039	.1578	
.050	.0216	-.1121		.1232	.2177	.1698	
.075	-.0748	-.1443		.1744	.2103	.1379	
.100	-.2021	-.1125		.2695	.2219	.1085	
.125	-.2580	.2735		.4105	.3097	-.0010	
.150	-.2033	.5244	-.1796	.4108	.3433	.3260	
.175	-.2169	.3229	.3754	.3012	.2456	.0610	-.3356
.200		.2257	.1721	.1803	.0421	-.1511	-.3232

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TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

PAGE 6955

AMES 11-073(QAI48) -140A/B/C/R ORB VERTICAL (XE8V60)

ALPHA ( 5 ) = 8.024 BETA ( 3 ) = 4.248 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5554

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B, .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3437	.1542	.1979	.2801	.1791
.025	-.3123	-.7651	-.2991	-.0044	-.0846
.050	-.1552	-.7269	-.2834	-.0065	-.0614
.075	-.1932	-.4634	-.2460	.0015	-.0590
.100	-.3506	-.3476	-.1216	-.0006	.0021
.125	-.3371	.2215	.3260	.0145	-.1379
.150	-.2334	.4423	.3572	-.0226	-.2662
.175	-.2299	.3058	.3172	-.0361	-.2707
.200		.1528	.1236	-.1059	-.2790

ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.839 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B, .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3469	.1593	.0844	-.0383	-.1422
.025	-.0260	-.0125	.3218	.3546	.2812
.050	.0555	.0142	.3047	.3376	.2594
.075	-.0455	-.0338	.2910	.2799	.1734
.100	-.1429	-.0227	.3329	.2459	.0937
.125	-.2229	.3545	.4366	.3026	-.0412
.150	-.2432	.5752	.2168	.3393	.2181
.175	-.2537	.4540	.3932	.2359	.0489
.200		.2042	.1982	.0328	-.1330

ALPHA ( 5 ) = 11.929 BETA ( 2 ) = .180 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B, .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4034	.2425	.3570	.3388	.2617
.025	-.0521	-.3489	-.0665	.1832	.1278
.050	.0073	-.1175	.0821	.1939	.1392
.075	-.0827	-.1316	.1515	.1842	.1169
.100	-.2141	-.1435	.2453	.1996	.0889
.125	-.2826	.2679	.2902	.2905	-.0239
.150	-.2179	.4725	.3911	.2356	-.3078
.175	-.2227	.3413	.2609	.0507	-.3154
.200		.1491	.0824	-.1542	-.3088

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV60)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

PN/L = 3.5645

P

= 1059.0

= 599.94

O

= .89963

MACH

= 4.268

BETA ( 3 ) =

ALPHA / 5 = 11.915

SECTION / INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3430	.1419	.1105	.1915	.1040
.025	.1355	.0425	.4213	.0721	.0842
.050	.0623	.0193	.3990	.0654	.0723
.075	.0183	.0188	.3687	.0621	.0790
.100	.0292	.0322	.0341	.0350	.0695
.125	.0466	.1566	.3285	.0056	.1731
.150	.2540	.2472	.3574	.0016	.2709
.175	.2343	.2379	.2516	.2192	.2821
.200	.0808	.0808	.0328	.0313	.2780

REGULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

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IN.	Y.O.	IN.	Y.O.	IN.	Y.O.	IN.	Y.O.
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375.0000	IN.	375.0000	IN.	375.0000	IN.	375.0000	IN.
3300	IN.	3300	IN.	3300	IN.	3300	IN.

$$\text{BETA} (1) = -7.854 \quad \text{MACH} = .59638$$

740163N(1) 1011-55

1950	1.530	.3170	.4530	.6020	.6970	.8390	.9250
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$\text{beta}(1) = -3.939$      $\text{beta}(2) = -3.832$      $\text{mach} = .59538$   
 DEPENDENT VARIABLE: CP

2016311 0135

Year	1953	1954	1955	1956	1957	1958	1959	1960
1953	1.532	3.170	4.590	6.020	5.970	8.390	9.250	

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1277	1796	0189
4625	4625	4166
3772	4335	3772
2598	3431	2598
1845	3064	1845
3988	0519	0519
2427	3201	2427
2382	1513	2382
2097	0030	2097

### PARAMETRIC DATA

RUDDER =	10.000	SPDBRK =	55.000
BDFLAP =	16.300	L-ELVN =	4.000
B-ELVN =	-4.000	MACH =	.600

$$= 2386.5 \quad \text{RN/L} = 4.8411$$

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DATE 14 FEB 75

TRANSLATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 5958

AMES 11-073(0A148) - (40A/B/C/R ORB VERTICAL (XEBV61))

ALPHA (1) = -3.990 BETA (3) = .201 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5076	.4735	.5282	.5037	.4432
.025	-.0086	-.2203	.0518	.2288	.1602
.050	.1106	.3312	.1833	.2439	.1967
.075	.0480	.0052	.2010	.2257	.1739
.100	-.0373	.0158	.2623	.2406	.1498
.125	-.1177	.3150	.4483	.3930	.0710
.150	-.1577	.4792	.4423	.3182	-.2351
.175	-.1375	.3245	.2765	.2543	-.2542
.200	-.1292	.0127	.0334	.0143	-.0188
.225					-.1295

ALPHA (1) = -3.998 BETA (4) = 4.282 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3435	.2250	.3922	.3597	.3546
.025	-.0812	.0350	-.2287	.1456	.4321
.050	-.0222	.0122	-.1798	.1055	-.2528
.075	-.1878	-.0792	-.0565	-.0231	.0095
.100	-.1119	.1184	.0909	.1384	.0858
.125	-.1654	.2174	.2897	.2902	.0313
.150	-.2072	.3554	.2398	.2514	-.2493
.175	-.1550	.2232	.2555	.1160	-.2620
.200		.0217	.0057	-.0318	-.2458

ALPHA (1) = -4.025 BETA (5) = 8.352 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8411

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B: .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.10508	.13362	-.0585	.0146	-.0084
.025	.15465	.0987	-.4743	.2375	.4120
.050	.0377	.0828	.4461	.2243	.3554
.075	.1179	.1752	.3682	.2036	.3349
.100	.1206	.3703	.3015	.1935	.1467
.125	.1310	.4300	.11570	.1582	.1561
.150	.1285	.3303	-.0925	.1464	.2709
.175	.1254	.1326	.2508	.1461	.2787
.200		.1184	.11104	.1512	.2791



DATE 14 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA = 2 = .015 BETA ( 1 ) = -7.895 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452  
(XEBV61)

SECTION 1 ( VERTICAL ) DEPENDENT VARIABLE CP

Z ( FT )	.1582	.3170	.4590	.6020	.6970	.8390	.9250
WGV							
.000	-.0310	-.3309	-.4922	-.4017	.3813		
.005	.1482	.4144	.5115	.4800	.3865		
.010	.3001	.5716	.4632	.4632	.3790		
.015	.4537	.6839	.4141	.3824	.2676		
.020	.6073	.8362	.3926	.3233	.1786		
.025	.7610	.9895	.4732	.3635	.0339		
.030	.9147	1.1428	.3966	.2940	-.1818		
.035	1.0684	1.2959	.3051	.2782	-.1594		
.040	1.2221	1.4490	.0699	.0708	.0162		
.045							

ALPHA = 2 = .022 BETA ( 2 ) = -3.851 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452

SECTION 1 ( VERTICAL ) DEPENDENT VARIABLE CP

Z ( FT )	.1582	.3170	.4590	.6020	.6970	.8390	.9250
WGV							
.000	.3207	.1751	.0686	.1012	-.0658		
.005	.4734	.3278	.4079	.4154	.3696		
.010	.6261	.4805	.3720	.3883	.3371		
.015	.7788	.6332	.3140	.3107	.2843		
.020	.9315	.7859	.3232	.2781	.1536		
.025	1.0842	.9386	.4559	.3619	.0400		
.030	1.2369	1.0913	.3859	.2916	-.2102		
.035	1.3896	1.2440	.2791	.2494	-.2106		
.040	1.5423	1.3967	.0478	.0315	-.1739		
.045							

ALPHA = 2 = .105 BETA ( 3 ) = .189 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452

SECTION 1 ( VERTICAL ) DEPENDENT VARIABLE CP

Z ( FT )	.1582	.3170	.4590	.6020	.6970	.8390	.9250
WGV							
.000	.4532	.1440	.4734	.4440	.3859		
.005	.6059	.2967	.6261	.5953	.5161		
.010	.7586	.4494	.7788	.7033	.5644		
.015	.9113	.6021	.9315	.8191	.6334		
.020	1.0640	.7548	1.1841	.9465	.7229		
.025	1.2167	.9075	1.3369	.3593	.5053		
.030	1.3694	1.0602	1.4896	.2973	.3465		
.035	1.5221	1.2129	1.6423	.2220	.2229		
.040	1.6748	1.3656	1.7950	.1137	.2222		
.045				-.0135	-.1901		

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV61)

RN/L = 4.8452

P

Q = 593.85

Q

MACH = .59624

BETA ( 4 ) = 4.25

BETA ( 4 ) = .100

ALPHA ( 2 ) = .100

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ALPHA ( 2 ) = .100

## DEPENDENT VARIABLE CP

## SECTION 1 VERTICAL

Z/B 1.1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C 1.000 .2921 .1555 .3164 .2975 .2674  
 .025 .3328 .5419 .2483 .1424 .4183  
 .050 .2334 .4652 .1996 .1173 .2510  
 .075 .2330 .3278 .1003 .0965 .0393  
 .100 .1978 .1465 .0396 .0952 .0846  
 .125 .2333 .2135 .2748 .2661 .0265  
 .150 .2333 .3755 .2791 .2618 .2353 .2281  
 .175 .2333 .2117 .2342 .1907 .1155 .2330  
 .200 .2333 .2007 .2019 .0197 .0273 .2109

ALPHA ( 5 ) = .094 BETA ( 5 ) = 8.317 MACH = .59624

## DEPENDENT VARIABLE CP

## SECTION 1 VERTICAL

Z/B 1.1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C 1.000 .1093 .4911 .1736 .0277 .0396  
 .025 .5934 .10617 .5135 .2171 .2354  
 .050 .6035 .18546 .5055 .2091 .2304  
 .075 .7822 .8753 .4575 .2067 .2234  
 .100 .3448 .3916 .3228 .2225 .1590  
 .125 .3422 .0653 .2185 .2046 .1785  
 .150 .2912 .2133 .1749 .1705 .2057 .2057  
 .175 .2912 .1396 .2063 .1131 .1749 .2212  
 .200 .2763 .1036 .0318 .0308 .1358 .1474 .2118

ALPHA ( 3 ) = .024 BETA ( 3 ) = -7.901 MACH = .59706

## DEPENDENT VARIABLE CP

## SECTION 1 VERTICAL

Z/B 1.1580 .3170 .4590 .6020 .6970 .8390 .9250

X/C 1.000 .0542 .3371 .5698 .4694 .4681  
 .025 .4107 .3129 .4638 .4312 .3323  
 .050 .3555 .3222 .4428 .4230 .3342  
 .075 .2155 .2331 .3775 .3469 .2368  
 .100 .1682 .1689 .3505 .2917 .1490  
 .125 .1008 .3909 .4357 .3138 .0208  
 .150 .2451 .1554 .4154 .2565 .1639  
 .175 .2451 .3233 .2519 .1191 .1467  
 .200 .2451 .1647 .0905 .0088 .1441

RN/L = 4.8521

P

Q = 595.26

Q

MACH = .59706

BETA ( 3 ) = -7.901

BETA ( 3 ) = .024

ALPHA ( 3 ) = .024

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ALPHA ( 3 ) = .024

DATE 14 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6961

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

SECTION 3 = 1.025 BETA (2) = -3.8+9 MACH = .59706 Q = 595.26 P = 2395.4 RVL = 4.6521

SECTION 1 VERTICAL

Z 31 1590 3170 4590 6020 6970 8390 9250

1.2777 1.212 1.0095 .0154 -.1454  
1.2323 1.2049 .3595 .3742 .3191  
1.2000 1.1891 .3332 .3459 .2904  
1.1680 1.1586 .2850 .2727 .1935  
1.1360 1.1273 .2600 .2456 .1180  
1.1040 1.0963 .2381 .2189 .0133  
1.0720 1.0652 .2162 .2036 .2565  
1.0400 1.0344 .1944 .1824 .2031  
1.0080 1.0034 .1726 .1614 .1906  
9760 9714 .1508 .1406 .1753

SECTION 3 = 1.035 BETA (3) = .195 MACH = .59705

SECTION 1 VERTICAL  
Z 31 1590 3170 4590 6020 6970 8390 9250

1.2777 1.212 1.0095 .0154 -.1454  
1.2323 1.2049 .3595 .3742 .3191  
1.2000 1.1891 .3332 .3459 .2904  
1.1680 1.1586 .2850 .2727 .1935  
1.1360 1.1273 .2600 .2456 .1180  
1.1040 1.0963 .2381 .2189 .0133  
1.0720 1.0652 .2162 .2036 .2565  
1.0400 1.0344 .1944 .1824 .2031  
1.0080 1.0034 .1726 .1614 .1906  
9760 9714 .1508 .1406 .1753

SECTION 3 = 1.045 BETA (4) = 4.254 MACH = .59706

SECTION 1 VERTICAL  
Z 31 1590 3170 4590 6020 6970 8390 9250

1.2777 1.212 1.0095 .0154 -.1454  
1.2323 1.2049 .3595 .3742 .3191  
1.2000 1.1891 .3332 .3459 .2904  
1.1680 1.1586 .2850 .2727 .1935  
1.1360 1.1273 .2600 .2456 .1180  
1.1040 1.0963 .2381 .2189 .0133  
1.0720 1.0652 .2162 .2036 .2565  
1.0400 1.0344 .1944 .1824 .2031  
1.0080 1.0034 .1726 .1614 .1906  
9760 9714 .1508 .1406 .1753

1.2777 1.212 1.0095 .0154 -.1454  
1.2323 1.2049 .3595 .3742 .3191  
1.2000 1.1891 .3332 .3459 .2904  
1.1680 1.1586 .2850 .2727 .1935  
1.1360 1.1273 .2600 .2456 .1180  
1.1040 1.0963 .2381 .2189 .0133  
1.0720 1.0652 .2162 .2036 .2565  
1.0400 1.0344 .1944 .1824 .2031  
1.0080 1.0034 .1726 .1614 .1906  
9760 9714 .1508 .1406 .1753



DATE 14 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6963

AMES 11-073(0A148) -14CA/B/C/R ORB VERTICAL (XE8V61)

ALPHA ( 4 ) = 8.042 BETA ( 3 ) = .196 MACH = .59720 Q = 595.49 P = 2385.3 RN/L = 4.8534

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4025	.3289	.3705	.3250	.2655
.025	-.0948	-.2916	.0027	.1318	.0778
.050	.0081	-.0604	.1016	.1443	.0980
.100	-.0574	-.0744	.1240	.1349	.0893
.150	-.1219	-.0519	.1874	.1547	.0635
.200	-.2355	.2635	.3335	.2703	.0040
.250	-.2315	.4373	.3250	.2760	.2295
.300	-.2375	.2870	.2359	.1501	.0619
.350	-.2375	.0669	-.0123	-.0475	-.1751

ALPHA ( 4 ) = 7.950

BETA ( 4 ) =

4.251 MACH = .59720

Q =

595.49

P =

2385.3

RN/L =

4.8534

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2137	.0535	.1840	.1755	.1399
.025	-.3733	-.5715	-.2876	-.1570	-.3702
.050	.3421	-.5514	-.2468	-.1412	-.2252
.100	-.2697	-.3315	-.1898	-.1898	-.0208
.150	-.2428	-.1725	.0070	.0543	.0516
.200	-.3047	.1357	.2613	.2415	-.0031
.250	-.2349	.3540	.1619	.1793	.1726
.300	-.2208	.2349	.1889	.0961	.0978
.350	.0101	-.0536	-.0248	-.0698	-.0154

ALPHA ( 4 ) = 7.955

BETA ( 5 ) =

8.305 MACH = .59720

Q =

595.49

P =

2385.3

RN/L =

4.8534

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2270	-.6406	-.3136	-.1454	-.1341
.025	-.7061	-1.0609	-.5318	-.2347	-.1665
.050	-.7260	-.9431	-.5278	-.2328	-.1585
.100	-.8243	-.9915	-.5054	-.2340	-.1482
.150	-.3758	-.3787	-.5149	-.2340	-.1555
.200	-.2517	.0076	-.2618	-.2651	-.2173
.250	-.2711	.2455	-.1709	-.3174	-.2699
.300	-.2531	.1790	.0106	-.2055	-.2161
.350	-.2531	-.0717	.0471	-.1489	-.1997

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV611)

ALPHA ( 5 ) = 11.943 BETA ( 1 ) = -7.853 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1254	-.5175	-.7432	-.6329	-.6545
.025	.2873	.3121	.3737	.3273	.2136
.050	.2364	.2849	.3749	.3294	.2336
.075	.1172	.1893	.3322	.2801	.1781
.100	.0362	.1427	.3211	.2368	.1033
.125	-.1245	.3918	.3716	.2540	-.0227
.150	-.1245	.5299	.3511	.2900	.1837
.175	-.2355	.4112	.2424	.2019	.0678
.200		.2002	.0530	.0318	-.0410

ALPHA ( 5 ) = 11.962 BETA ( 2 ) = -3.827 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2775	.0578	-.1003	-.1457	-.2912
.025	.1598	.1594	.3136	.2957	.2267
.050	.1633	.1471	.2770	.2810	.2085
.075	.0443	.0594	.2411	.2082	.1195
.100	-.0351	.0469	.2571	.1841	.0592
.125	-.1594	.3285	.3515	.2396	-.0402
.150	-.2353	.4973	.3304	.1874	-.2030
.175	-.2181	.3499	.2652	.1720	.0495
.200		.1421	.0389	-.0169	-.1968

ALPHA ( 5 ) = 11.967 BETA ( 3 ) = .197 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3980	.2959	.3355	.2791	.2149
.025	-.0931	-.3021	-.0201	.1115	.0579
.050	-.0033	-.0782	.0815	.1255	.0772
.075	-.0744	-.0317	.1059	.1112	.0638
.100	-.1332	-.0551	.1684	.1308	.0384
.125	-.2509	.2653	.3022	.2314	-.0130
.150	-.2411	.2947	.2945	.2022	-.1933
.175	-.2124	.2807	.1662	.1367	.0480
.200		.0651	-.0430	-.0590	-.1526

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ALPHA ( 5 ) = 11.963 BETA ( 4 ) = 4.259 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439  
(XESV61)

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV		
.1580	.3170	.4590	.6020 .6970 .8390 .9250
.000	.2484	.0113	.1227 .0946 .0639
.025	.3558	.5780	-.3119 -.1848 -.3801
.050	.3463	.5806	-.2763 -.1681 -.2330
.100	.2732	.3375	-.2233 -.2322 -.0076
.150	.2553	.1798	-.0143 .0265 .0103
.200	.3107	.1931	.2488 .2123 -.0596
.250	.2174	.3614	-.1578 .2524 .1908
.300	.2094	.2253	.1691 .1484 .0664
.350	.0139	-.0745	-.0521 -.0778 -.0507

ALPHA ( 5 ) = 11.951 BETA ( 5 ) = 8.315 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP	
Z/BV	X/CV		
.1580	.3170	.4590	.6020 .6970 .8390 .9250
.000	.2331	.6845	-.4059 -.2151 -.1926
.025	.7286	-1.0221	-.5539 -.2625 -.1688
.050	.8000	-.9471	-.5541 -.2533 -.1620
.100	.5929	-1.0716	-.5485 -.2564 -.1608
.150	.4729	-.3948	-.5711 -.2748 -.1712
.200	.4518	.0195	-.2540 -.2988 -.2269
.250	.3398	.2001	-.1748 -.3450 -.2248
.300	.3225	.1391	.1057 -.2257 -.2293
.350	-.0392	-.0867	.0520 -.2183 -.2290

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV62) ( 13 AUG 75 )

## REFERENCE DATA

SREF = 2530.000 SQ. FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0500 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -.4059 BETA ( 1 ) = -3.849 MACH = 1.3925 Q = 599.99 P = 442.06 RVL = 2.9210  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1590	.3170	.4590 .6020 .6970 .8390 .9250
.000	.7815	.6443
.025	.6131	.6817
.050	.5179	.6904
.075	.6229	.6970
.100	.5272	.6970
.125	.4200	.6970
.150	.3943	.6970
.175	.3307	.6970
.200	.2817	.6970
.225	.2196	.6970
.250	.1556	.6970
.275	.0933	.6970
.300	.0303	.6970

ALPHA ( 1 ) = -3.922 BETA ( 2 ) = .195 MACH = 1.3925 Q = 599.99 P = 442.06 RVL = 2.9210  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1590	.3170	.4590 .6020 .6970 .8390 .9250
.000	.8327	.7045
.025	.6622	.6752
.050	.4535	.6326
.075	.3479	.5100
.100	.2753	.4440
.125	.2094	.3629
.150	.1243	.2638
.175	.0342	.2217
.200	.0000	.1830
.225	.0000	.1471
.250	.0000	.1154
.275	.0000	.0878
.300	.0000	.0647

## PARAMETRIC DATA

RUDDER = 5.000 SPUBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.400



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV62)

ALPHA ( 1 ) = -3.930 BETA ( 3 ) = 4.260 MACH = 1.3925 Q = 599.99 P = 442.06 RN/L = 2.9210

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7849	.6672		.6131	.5590	.5232	
.025	.0903	-.0752		-.2632	.0502	.2283	
.050	.1146	-.0825		-.3039	.0609	.2385	
.150	.2106	.0331		-.0613	.0583	.2559	
.300	.2103	.0830		.0774	.0576	.2115	
.500	.0406	.0050		.4034	.4393	.0380	
.685	-.3733	.4614	-.1544	.5327	.5292	.0139	
.775	-.3514	.3829	.5345	.5734	.5332	-.1294	
.900		.3025	.4446	.5105	.4304	.4023	-.2512

RN/L = 2.9172

ALPHA ( 2 ) = .024 BETA ( 1 ) = -3.867 MACH = 1.3922 Q = 599.78 P = 442.06 RN/L = 2.9172

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7131	.5939		.5712	.5989	.5303	
.025	.5201	.4329		.3875	.5904	.6261	
.050	.5419	.4427		.3813	.5895	.6079	
.150	.4495	.3418		.3155	.5854	.5436	
.300	.3094	.2556		.3764	.6082	.5235	
.500	.1500	.2059		.7358	.6972	.4478	
.685	-.3470	.6038	-.1549	.6681	.6388	-.1769	
.775	-.2844	.5090	.6309	.6264	.4954	-.2999	
.900		.4441	.5324	.5267	.4850	.3117	-.4086

RN/L = 2.9172

ALPHA ( 2 ) = .029 BETA ( 2 ) = .185 MACH = 1.3922 Q = 599.78 P = 442.06 RN/L = 2.9172

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7599	.6704		.6236	.5691	.6101	
.025	.2055	.0993		-.0233	.0239	.2533	
.050	.2332	.2325		.0078	.0355	.3261	
.150	.3711	.2149		.1613	.4365	.4190	
.300	.2248	.1492		.1454	.5311	.4759	
.500	.0693	.0574		.5831	.6282	.4055	
.685	-.3349	.5561	-.1497	.6500	.5931	-.1774	
.775	-.3445	.4042	.5482	.6095	.4841	-.2867	
.900		.3311	.4805	.4932	.4210	-.3815	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV62)

ALPHA ( 2 ) = .025 BETA ( 3 ) = 4.257 MACH = 1.3922 Q = 599.78 P = 442.06 RNV/L = 2.9172

SECTION 1 HORIZONTAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6920	.5345	.5394	.4581	.3829
.025	-1.0313	-1.1394	-.2993	-.1364	.1187
.050	.0373	-.1394	-.3369	-.1317	.1313
.075	.1235	-.0275	-.1111	-.1026	.1459
.100	.1604	.0427	-.0040	-.0123	.0212
.125	-.0080	-.0462	.3200	.5122	.1551
.150	-.1159	.0973	.4632	.5413	-.0871
.175	-.1159	.3043	.4549	.4634	-.2021
.200	-.1371	.1223	.4526	.3930	.2897
.225					-.3414

ALPHA ( 3 ) = 3.959 BETA ( 1 ) = -3.867 MACH = 1.3919 Q = 599.88 P = 442.29 RNV/L = 2.9189

SECTION 1 HORIZONTAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6223	.5289	.4955	.5024	.4585
.025	.3923	.3523	.3058	.4751	.5455
.050	.5163	.3680	.3042	.4872	.5294
.075	.7393	.2735	.2421	.5066	.4758
.100	.2360	.1955	.2539	.5422	.4565
.125	.0974	.1745	.2558	.6291	.3949
.150	-.0705	.0530	.5749	.5782	-.1782
.175	-.2102	.4233	.5573	.4548	-.3189
.200		.3732	.4763	.2614	-.4066

ALPHA ( 1 ) = 3.959 BETA ( 2 ) = .197 MACH = 1.3919 Q = 599.88 P = 442.29 RNV/L = 2.9189

SECTION 1 HORIZONTAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6998	.5995	.5333	.4710	.4124
.025	.1530	.0631	-.0616	-.0722	.1603
.050	.3234	.2573	-.0397	-.0592	.1617
.075	.3245	.1561	.1075	.2941	.3641
.100	.1539	.0971	.0938	.4650	.4134
.125	.0150	.0406	.4947	.5456	.3416
.150	-.1412	.1748	.5549	.5170	-.1832
.175	-.3043	.1345	.4670	.4276	-.3063
.200		.1231	.3237	.4131	-.4014

ABULATED PRESSURE DATA - 01.48 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V62)

ALPHA ( 1 ) = 3.933 BETA ( 3 ) = 4.246 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9189

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Y	1.580	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
0.00	.5882	.5378	.4550	.3717	.2863		
0.05	.5882	.5378	.4550	.3717	.2863		
0.10	.5882	.5378	.4550	.3717	.2863		
0.15	.5882	.5378	.4550	.3717	.2863		
0.20	.5882	.5378	.4550	.3717	.2863		
0.25	.5882	.5378	.4550	.3717	.2863		
0.30	.5882	.5378	.4550	.3717	.2863		
0.35	.5882	.5378	.4550	.3717	.2863		
0.40	.5882	.5378	.4550	.3717	.2863		
0.45	.5882	.5378	.4550	.3717	.2863		
0.50	.5882	.5378	.4550	.3717	.2863		
0.55	.5882	.5378	.4550	.3717	.2863		
0.60	.5882	.5378	.4550	.3717	.2863		
0.65	.5882	.5378	.4550	.3717	.2863		
0.70	.5882	.5378	.4550	.3717	.2863		
0.75	.5882	.5378	.4550	.3717	.2863		
0.80	.5882	.5378	.4550	.3717	.2863		
0.85	.5882	.5378	.4550	.3717	.2863		
0.90	.5882	.5378	.4550	.3717	.2863		
0.95	.5882	.5378	.4550	.3717	.2863		
1.00	.5882	.5378	.4550	.3717	.2863		

ALPHA ( 1 ) = 7.327 BETA ( 1 ) = -3.965 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9182

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Y	1.580	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
0.00	.5882	.5378	.4550	.3717	.2863		
0.05	.5882	.5378	.4550	.3717	.2863		
0.10	.5882	.5378	.4550	.3717	.2863		
0.15	.5882	.5378	.4550	.3717	.2863		
0.20	.5882	.5378	.4550	.3717	.2863		
0.25	.5882	.5378	.4550	.3717	.2863		
0.30	.5882	.5378	.4550	.3717	.2863		
0.35	.5882	.5378	.4550	.3717	.2863		
0.40	.5882	.5378	.4550	.3717	.2863		
0.45	.5882	.5378	.4550	.3717	.2863		
0.50	.5882	.5378	.4550	.3717	.2863		
0.55	.5882	.5378	.4550	.3717	.2863		
0.60	.5882	.5378	.4550	.3717	.2863		
0.65	.5882	.5378	.4550	.3717	.2863		
0.70	.5882	.5378	.4550	.3717	.2863		
0.75	.5882	.5378	.4550	.3717	.2863		
0.80	.5882	.5378	.4550	.3717	.2863		
0.85	.5882	.5378	.4550	.3717	.2863		
0.90	.5882	.5378	.4550	.3717	.2863		
0.95	.5882	.5378	.4550	.3717	.2863		
1.00	.5882	.5378	.4550	.3717	.2863		

ALPHA ( 1 ) = 7.327 BETA ( 2 ) = .179 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9182

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Y	1.580	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
0.00	.5882	.5378	.4550	.3717	.2863		
0.05	.5882	.5378	.4550	.3717	.2863		
0.10	.5882	.5378	.4550	.3717	.2863		
0.15	.5882	.5378	.4550	.3717	.2863		
0.20	.5882	.5378	.4550	.3717	.2863		
0.25	.5882	.5378	.4550	.3717	.2863		
0.30	.5882	.5378	.4550	.3717	.2863		
0.35	.5882	.5378	.4550	.3717	.2863		
0.40	.5882	.5378	.4550	.3717	.2863		
0.45	.5882	.5378	.4550	.3717	.2863		
0.50	.5882	.5378	.4550	.3717	.2863		
0.55	.5882	.5378	.4550	.3717	.2863		
0.60	.5882	.5378	.4550	.3717	.2863		
0.65	.5882	.5378	.4550	.3717	.2863		
0.70	.5882	.5378	.4550	.3717	.2863		
0.75	.5882	.5378	.4550	.3717	.2863		
0.80	.5882	.5378	.4550	.3717	.2863		
0.85	.5882	.5378	.4550	.3717	.2863		
0.90	.5882	.5378	.4550	.3717	.2863		
0.95	.5882	.5378	.4550	.3717	.2863		
1.00	.5882	.5378	.4550	.3717	.2863		

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\*TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - (40A/B/C/R ORB VERTICAL (XE8V62)

ALPHA (5) = 11.319 BETA (3) = 4.258 MACH = 1.3316 Q = 599.87 P = 442.53 RN/L = 2.9199

SECTION 1 (VERTICAL)

DEPENDENT VARIABLE CP

Z/B .1590 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.6293	-.737	.3158	.2151	.1765
.025	-.1178	-.1578	-.3596	-.4188	-.2693
.050	.1740	-.1464	-.3913	-.4160	-.2845
.075	.2171	-.0343	-.1939	-.2944	-.2469
.100	.3044	-.0824	-.1378	.1032	-.0497
.125	-.1466	-.1710	.1959	.2578	.1581
.150	-.4273	.2025	-.1843	.3115	-.1444
.175	-.3753	.1623	.2375	.3098	.3032
.200	-.3753	.1623	.2375	.1773	-.1128

ALPHA (6) = 15.912 BETA (1) = -3.830 MACH = 1.3997 Q = 599.83 P = 443.71 RN/L = 2.9243

SECTION 1 (VERTICAL)

DEPENDENT VARIABLE CP

Z/B .1590 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.7723	.5166	.3305	.2443	.2568
.025	-.2132	.1036	.1403	.1474	.3380
.050	-.0570	.2597	.1424	.1571	.3468
.075	.2319	.1118	.0339	.2459	.3361
.100	-.3041	-.0157	.0474	.3933	.3243
.125	-.0970	-.1129	.4675	.5003	.2779
.150	-.4150	.4651	.2038	.4225	-.2443
.175	-.3434	.4125	.4903	.4475	.3586
.200	-.3434	.4125	.4903	.3265	.1938

ALPHA (5) = 15.924 BETA (2) = .184 MACH = 1.3697 Q = 599.83 P = 443.71 RN/L = 2.9243

SECTION 1 (VERTICAL)

DEPENDENT VARIABLE CP

Z/B .1590 .3170 .4590 .6020 .6970 .8390 .9250

K/CV

.000	.7023	.4997	.3300	.2420	.1991
.025	.0665	-.0201	-.1447	-.1567	-.1886
.050	.2341	.1543	-.1506	-.1679	-.1541
.075	.2749	.0593	-.0247	-.0299	.1731
.100	.0744	-.0350	-.0470	.2538	.2585
.125	-.1177	-.1225	.2883	.3402	.1724
.150	-.4479	.2917	.3458	.3292	-.2163
.175	-.3445	.3142	.3629	.3010	-.3463
.200	-.3445	.3142	.3629	.2734	.1728

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 6 ) = 15.915 BETA ( 3 ) = 4.238 MACH = 1.3897 Q = 599.83 P = 443.71 RN/L = 2.9243  
 SECTION ( 1 ) VERTICAL

(XEBV62)

DEPENDENT VARIABLE CP

Z B. .1550 .3170 .4590 .6020 .8390 .9250

Y/CV

.000	.7937	.5294	.2857	.1631	.1274
.005	.7845	.5211	.2851	.1676	.1376
.010	.7753	.5128	.2852	.1693	.1325
.015	.7660	.5045	.2857	.1257	.1207
.020	.7568	.4962	.2851	.0511	.1113
.025	.7475	.4879	.2848	.0832	.0832
.030	.7383	.4796	.2844	.1901	.1901
.035	.7290	.4713	.2833	.2782	.3425
.040	.7198	.4630	.2801	.1494	.4577

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV63) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

## REFERENCE DATA

CRP = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8100 IN. YMRP = .0000 IN. YO  
 ZREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.250

ALPHA ( 1 ) = -4.050 BETA ( 1 ) = -3.840 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241  
 ALPHA ( 2 ) = -3.916 BETA ( 2 ) = .196 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

## SECTION 1: VERTICAL

Z/BV .1530 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X'CV

.000 .7642 .6259 .6094 .6271 .5220  
 .025 .5335 .4687 .4372 .6622 .6446  
 .050 .4959 .4535 .4417 .6468 .6181  
 .100 .4813 .4205 .4592 .5412 .5412  
 .150 .5273 .2784 .6665 .5961 .4976  
 .200 .1577 .2780 .7439 .6726 .3941  
 .250 .1577 .6890 .7375 .6633 .6018  
 .300 .1557 .6296 .6264 .5975 .4430  
 .350 .1557 .4999 .4815 .4349 .2211  
 .400 .1557 .4999 .4815 .4349 .2211

ALPHA ( 1 ) = -3.916

BETA ( 2 ) =

.196 MACH = 1.2459

Q = 600.11

P =

552.28

RN/L = 3.0241

## SECTION 2: VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1530 .3170 .4590 .6020 .6970 .8390 .9250

## X'CV

.000 .8135 .6935 .6644 .7191 .7057  
 .025 .2756 .6319 .5544 .3202 .3672  
 .050 .4355 .2935 .0157 .3919 .4233  
 .100 .3786 .2137 .1540 .4787 .4718  
 .150 .2213 .1444 .4418 .5322 .4737  
 .200 .0593 .1692 .6590 .6372 .3776  
 .250 .1439 .5510 .6827 .6386 .5843  
 .300 .1439 .5510 .6827 .6386 .5843  
 .350 .1439 .5510 .6827 .6386 .5843  
 .400 .1439 .5510 .6827 .6386 .5843

ORIGINAL PAGE 1  
 OF POOR QUALITY

DATE 14 FEB 78

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV63)

AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

ALPHA ( 1 ) = -3.923 BETA ( 3 ) = 4.275 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z 27 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7471	.6188	.5726	.5357	.5127	
.005	.0721	-.1625	-.3494	.0577	.1980	
.010	.1024	-.1554	-.3943	.0655	.2115	
.015	.1241	-.1033	-.1030	.0551	.2241	
.020	.1390	-.0395	.0943	.0430	.1886	
.025	.1488	-.0557	.4284	.4498	-.0072	
.030	.1533	-.1625	.5078	.5225	.5461	-.0515
.035	.1533	.2631	.5173	.4837	.5183	-.2113
.040	.1488	.3637	.4257	.3400	.3200	-.3417

ALPHA ( 2 ) = .044 BETA ( 1 ) = -3.864 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238

SECTION 2 INVERTICAL

DEPENDENT VARIABLE CP

Z 27 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6991	.5533	.5226	.5494	.4530	
.005	.5115	.3957	.3703	.5802	.5781	
.010	.3643	.2559	.3289	.5700	.5546	
.015	.2410	.1386	.2358	.5390	.4802	
.020	.1488	.0406	.1517	.5402	.4445	
.025	.0882	.0716	.6823	.6311	.3502	
.030	-.0496	.4953	.6053	.5527	-.2942	
.035	-.1343	.4310	.5762	.5475	.4050	-.4223
.040		.3550	.4555	.3931	.1903	-.4955

ALPHA ( 2 ) = .050 BETA ( 2 ) = .180 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238

SECTION 3 INVERTICAL

DEPENDENT VARIABLE CP

Z 27 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7387	.6190	.5810	.5976	.5825	
.005	.3037	.2249	-.0939	.1674	.2747	
.010	.2310	.2344	-.0463	.2409	.3403	
.015	.2223	.1177	.0386	.3967	.3962	
.020	.1543	.0211	.2357	.4628	.4156	
.025	.0302	.0133	.5739	.5739	.3254	
.030	-.0496	.4953	.6053	.5527	.2677	
.035	-.1343	.4310	.5762	.5475	.3328	-.4068
.040		.3550	.4555	.3931	.1756	-.4760







DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.897 BETA ( 3 ) = 4.244 MACH = 1.2457 Q = 599.38 P = 551.80 RN/L = 3.0207  
 (XEBV63)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.5385	.4626	.3387	.2466	.1635	
.025	.0837	-.2441		-.4489	-.3381	-.0585	
.050	.1390	-.2225		-.4964	-.3366	-.0426	
.150	.1683	-.0814		-.2557	-.3041	-.0411	
.300	-.0236	-.1234		-.1688	-.0829	-.1848	
.520	-.1954	-.2308		.2518	-.3740	.2364	
.685	-.4735	.2303	-.1750	.3719	.3066	.3565	-.2548
.775	-.4025	.1303	.2837	.3657	.3429	.2850	-.3961
.900		.0659	.2027	.2729	.2587	.1134	-.4856

ALPHA ( 5 ) = 11.969 BETA ( 1 ) = -3.850 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6693	.4268	.3116	.2959	.2204	
.025	.2691	.1891		.1276	.3453	.3849	
.050	.3539	.2115		.1302	.3427	.3673	
.150	.2137	.1103		.0714	.3510	.3101	
.300	.0417	.0344		.1260	.3759	.2857	
.520	-.0745	-.0617		.5091	.4524	.2116	
.685	-.5174	.4478	-.1937	.5151	.4267	.3842	-.3234
.775	-.3523	.3561	.4396	.4313	.3990	.2749	-.4608
.900		.2865	.3438	.3154	.2632	.1081	-.5379

ALPHA ( 5 ) = 11.877 BETA ( 2 ) = .185 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.6700	.4485	.3441	.2676	.3299	
.025	.1588	-.0519		-.1974	-.1986	.0654	
.050	.3020	.1183		-.1792	-.1960	.1235	
.150	.2241	.0119		-.0581	.1879	.2040	
.300	.0219	-.0681		-.0691	.2983	.2443	
.520	-.1467	-.1591		.3374	.3683	.1593	
.685	-.5477	.2893	-.1871	.4025	.3828	.3360	-.3180
.775	-.3693	.1886	.3230	.3826	.3714	.2574	-.4410
.900		.1333	.2462	.2722	.2392	.0882	-.5064

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AME'S 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV63)

ALPHA ( 5 ) = 11.890 BETA ( 3 ) = 4.256 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP						
Z-BV		.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV								
.000	.6645	.4298	.2731	.1679	.0748			
.025	.0774	-.2494	-.4560	-.4716	-.1773			
.050	.1439	-.2315	-.4916	-.4731	-.1766			
.150	.1634	-.0998	-.2821	-.3569	-.2089			
.300	-.0365	-.1537	-.1921	.1121	-.1204			
.525	-.2189	-.2570	.1971	.2622	.1035			
.695	-.4976	.1908	.3175	.2968	-.2272			
.775	-.4070	.0589	.2249	.2453	-.2272			
.900		.0298	.1501	.2042	.2648			
				.2218	.0902			

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(XEBV64) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = 5.000 SPOBRK = 55.000  
BDFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = -4.000 MACH = 1.100

RN/L = 3.1905

P = 598.93

Q = 1.0981

MACH = -3.840

BETA ( 1 ) = -3.951

ALPHA ( 1 ) = -3.948

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV .000 .6899 .5451 .5625 .5278 .4082

.025 .5257 .3598 .4754 .6049 .5740

.050 .5165 .3637 .4676 .5831 .5434

.100 .3827 .2600 .4605 .5269 .4525

.150 .2280 .2119 .5070 .5055 .3968

.200 .0626 .3816 .6887 .5746 .2651

.250 .4648 .6128 .1681 .6509 .5703

.300 .1128 .4979 .5520 .5271 .4937

.350 .3493 .3975 .3658 .3132 .0762

.400 .5278 .4082

.450 .6049 .5740

.500 .5831 .5434

.550 .5269 .4525

.600 .5070 .5055

.650 .6887 .5746

.700 .2651

.750 .5703

.800 .4937

.850 .4937

.900 .3132

.950 .0762

1.000 .5765

1.050 .5765

1.100 .5765

1.150 .5765

1.200 .5765

1.250 .5765

1.300 .5765

1.350 .5765

1.400 .5765

1.450 .5765

1.500 .5765

1.550 .5765

1.600 .5765

1.650 .5765

1.700 .5765

1.750 .5765

1.800 .5765

1.850 .5765

1.900 .5765

1.950 .5765

2.000 .5765

2.050 .5765

2.100 .5765

2.150 .5765

2.200 .5765

2.250 .5765

2.300 .5765

2.350 .5765

2.400 .5765

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2.550 .5765

2.600 .5765

2.650 .5765

2.700 .5765

2.750 .5765

2.800 .5765

2.850 .5765

2.900 .5765

2.950 .5765

3.000 .5765

3.050 .5765

3.100 .5765

3.150 .5765

3.200 .5765

3.250 .5765

3.300 .5765

3.350 .5765

3.400 .5765

3.450 .5765

3.500 .5765

3.550 .5765

3.600 .5765

3.650 .5765

3.700 .5765

3.750 .5765

3.800 .5765

3.850 .5765

3.900 .5765

3.950 .5765

4.000 .5765

4.050 .5765

4.100 .5765

4.150 .5765

4.200 .5765

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4.700 .5765

4.750 .5765

4.800 .5765

4.850 .5765

4.900 .5765

4.950 .5765

5.000 .5765

5.050 .5765

5.100 .5765

5.150 .5765

5.200 .5765

5.250 .5765

5.300 .5765

5.350 .5765

5.400 .5765

5.450 .5765

5.500 .5765

5.550 .5765

5.600 .5765

5.650 .5765

5.700 .5765

5.750 .5765

5.800 .5765

5.850 .5765

5.900 .5765

5.950 .5765

6.000 .5765

6.050 .5765

6.100 .5765

6.150 .5765

6.200 .5765

6.250 .5765

6.300 .5765

6.350 .5765

6.400 .5765

6.450 .5765

6.500 .5765

6.550 .5765

6.600 .5765

6.650 .5765

6.700 .5765

6.750 .5765

6.800 .5765

6.850 .5765

6.900 .5765

6.950 .5765

7.000 .5765

7.050 .5765

7.100 .5765

7.150 .5765

7.200 .5765

7.250 .5765

7.300 .5765

7.350 .5765

7.400 .5765

7.450 .5765

7.500 .5765

7.550 .5765

7.600 .5765

7.650 .5765

7.700 .5765

7.750 .5765

7.800 .5765

7.850 .5765

7.900 .5765

7.950 .5765

8.000 .5765

8.050 .5765

8.100 .5765

8.150 .5765

8.200 .5765

8.250 .5765

8.300 .5765

8.350 .5765

8.400 .5765

8.450 .5765

8.500 .5765

8.550 .5765

8.600 .5765

8.650 .5765

8.700 .5765

8.750 .5765

8.800 .5765

8.850 .5765

8.900 .5765

8.950 .5765

9.000 .5765

9.050 .5765

9.100 .5765

9.150 .5765

9.200 .5765

9.250 .5765

9.300 .5765

9.350 .5765

9.400 .5765

9.450 .5765

9.500 .5765

9.550 .5765

9.600 .5765

9.650 .5765

9.700 .5765

9.750 .5765

9.800 .5765

9.850 .5765

9.900 .5765

9.950 .5765

10.000 .5765

10.050 .5765

10.100 .5765

10.150 .5765

10.200 .5765

10.250 .5765

10.300 .5765

10.350 .5765

10.400 .5765

10.450 .5765

10.500 .5765

10.550 .5765

10.600 .5765

10.650 .5765

10.700 .5765

10.750 .5765

10.800 .5765

10.850 .5765

10.900 .5765

10.950 .5765

11.000 .5765

11.050 .5765

11.100 .5765

11.150 .5765

11.200 .5765

11.250 .5765

11.300 .5765

11.350 .5765

1

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV64)

ALPHA ( 1 ) = -3.942 BETA ( 3 ) = 4.273 MACH = 1.0981 Q = 598.93 P = 709.54 RN/L = 3.1905

## SECTION 1: VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6725	.5344	.4958	.5030	.4832
.025	-.0231	-.3369	-.4772	.0238	.1005
.050	.0385	-.2356	-.4820	.0331	.1131
.150	.1235	-.0695	-.1128	.0378	.1276
.300	.0182	-.0288	.1129	.0844	.1072
.500	-.1306	-.0579	.4022	.2742	-.0147
.650	-.1543	.3659	.4514	.4631	.2848
.775	-.2865	.3080	.4234	.2994	.3185
.900		.2050	.2991	.2231	.1925

ALPHA ( 2 ) = .059 BETA ( 1 ) = -3.863 MACH = 1.0998 Q = 599.80 P = 708.37 RN/L = 3.1909

## SECTION 2: VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6421	.4956	.4707	.4598	.3336
.025	.4521	.2900	.3201	.5440	.5139
.050	.4533	.2973	.3331	.5224	.4859
.150	.3221	.2052	.3513	.4757	.4041
.300	.1597	.1172	.4449	.4596	.3538
.500	-.0129	.1777	.6225	.5362	.2313
.650	-.15315	.5532	.6103	.4503	-.4388
.775	-.11997	.4554	.5108	.4577	.2854
.900		.3303	.3675	.2819	.0482

ALPHA ( 2 ) = .062 BETA ( 2 ) = .183 MACH = 1.0998 Q = 599.80 P = 708.37 RN/L = 3.1909

## SECTION 3: VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7100	.5553	.5256	.6015	.5686
.025	.1809	-.0711	-.1932	.2411	.2384
.050	.3259	.1485	-.0627	.2928	.2982
.150	.2383	.0568	.0299	.3493	.3319
.300	.0710	.0002	.3305	.3948	.3236
.500	-.0913	.0891	.5344	.4971	.2184
.650	-.5221	.4598	.5524	.4408	-.4240
.775	-.2781	.3548	.4592	.4304	-.5092
.900		.2509	.3146	.0326	-.5498

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV64)

ALPHA ( 2 ) = .059 BETA ( 3 ) = 4.253 MACH = 1.0998 Q = 599.80 P = 708.37 RN/L = 3.1909

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.5020	.6970	.8390	.9250
X/CV							
.000	.6292	.4908		.4212		.4018	.3813
.025	-.0579	-.3524		-.5191		-.0305	.0604
.050	-.0361	-.3066		-.5586		-.0200	.0748
.150	.0801	-.1242		-.2530		-.0210	.0952
.300	-.0213	-.1329		-.0094		-.0373	.0753
.520	-.1177	-.2123		.3599		.3803	-.0905
.685	-.5339	.3131	-.1602	.4267	.3978	.4075	-.1917
.775	-.3379	.2522	.3902	.4073	.3500	.3490	-.3762
.900		.1915	.2659	.2651	.1921	.1307	-.4750

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -3.865 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.5020	.6970	.8390	.9250
X/CV							
.000	.6064	.4319		.3760		.3786	.2576
.025	.3476	.2171		.1763		.4748	.4593
.050	.3715	.2313		.1843		.4632	.4301
.150	.2583	.1325		.2455		.4229	.3519
.300	.1052	.0440		.4023		.4144	.3064
.520	-.0638	.0720		.5714		.4973	.1893
.685	-.6036	.5326	-.1516	.5620	.4802	.4096	-.4507
.775	-.2613	.4127	.4769	.4544	.4179	.2518	-.5204
.900		.3212	.3415	.3044	.2462	.0255	-.5631

ALPHA ( 3 ) = 4.021 BETA ( 2 ) = .178 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.5020	.6970	.8390	.9250
X/CV							
.000	.6762	.4992		.4477		.4976	.4602
.025	.1354	-.1058		-.2385		.1494	.1894
.050	.2940	.1023		-.1489		.2182	.2469
.150	.1933	.0121		-.0360		.2842	.2761
.300	.0195	-.0570		.2544		.3398	.2768
.520	-.1347	-.0211		.4554		.4418	.1743
.685	-.5573	.3758	-.1448	.4928	.4375	.3867	-.4213
.775	-.3262	.2854	.4054	.4105	.3826	.2358	-.4912
.900		.2127	.2742	.2606	.2182	.0052	-.5290

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6982

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XE8V64)

ALPHA ( 3 ) = 4.024 BETA ( 3 ) = 4.243 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5951	.4279	.3408	.2922	.2770
.025	-.1075	-.3754	-.5544	-.1458	.0056
.050	-.0441	-.3417	-.6015	-.1337	.0167
.100	.0482	-.1799	-.3650	-.1808	.0430
.150	-.0616	-.1782	-.1159	-.1545	-.0266
.200	-.2515	-.2858	.3128	.4497	-.0536
.250	-.4848	.2474	.4014	.3275	.4009
.300	-.3335	.1599	.3341	.2939	-.2673
	.1329	.1329	.2244	.1646	-.4167
				.0350	-.4849

ALPHA ( 4 ) = 7.977 BETA ( 1 ) = -3.859 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6136	.2606	.2976	.2886	.1595
.025	.3331	.1516	.1005	.4260	.4136
.050	.3589	.1701	.1040	.4146	.3887
.100	.2117	.0569	.1298	.3874	.3118
.150	.0231	-.0224	.3663	.3786	.2677
.200	-.1142	-.0198	.5334	.4450	.1569
.250	-.6324	.4589	.5232	.4272	.3692
.300	-.3212	.3875	.4541	.3803	.2158
	.3256	.3232	.2720	.2142	.0047
				.0047	-.5494

ALPHA ( 4 ) = 7.981 BETA ( 2 ) = .181 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6459	.4302	.3599	.3872	.3550
.025	.1341	-.1423	-.2830	.0639	.1432
.050	.2651	.0569	-.2155	.1698	.1854
.100	.1585	-.0476	-.1049	.2233	.2181
.150	-.0402	-.1286	.1352	.2839	.2299
.200	-.2344	-.1921	.3926	.3846	.1294
.250	-.5312	.3046	.4319	.3305	.4253
.300	-.3720	.2168	.3595	.2014	-.1859
	.1825	.1825	.2335	.1882	-.0163
					-.5191



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 6983

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL (XEBV64)

ALPHA ( 4 ) = 7.900 BETA ( 3 ) = 4.237 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1954

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6057	.3784	.2658	.1966	.1354
.025	-.0450	-.3848	-.5843	-.2744	-.0585
.050	.0204	-.3348	-.6294	-.2644	-.0409
.150	.0715	-.2026	-.4039	-.3178	-.0388
.300	-.1304	-.2329	-.2120	-.1520	-.1971
.520	-.3151	-.3388	.2563	.3822	.1425
.695	-.5220	.1810	-.1558	.2698	.3267
.775	-.3841	.0815	.2627	.2750	.1903
.900	.0644	.0815	.3303	.1903	.4484
			.1995	.1541	-.0265
			.1828	.1541	-.4864

ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.844 MACH = 1.0980 Q = 599.84 P = 710.72 RN/L = 3.1951

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6435	.3646	.2315	.2008	.0588
.025	.2010	.1001	.0648	.3734	.3628
.050	.2650	.1290	.0629	.3632	.3389
.150	.1475	.0271	.0444	.3341	.2666
.300	-.0348	-.0551	.3393	.3360	.2242
.520	-.1481	-.0639	.4697	.3935	.1195
.695	-.6376	.4305	-.1886	.3827	.3197
.775	-.3716	.3584	.4237	.3407	.1859
.900		.3087	.3010	.1813	-.0140
					-.5797

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .189 MACH = 1.0980 Q = 599.84 P = 710.72 RN/L = 3.1951

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6321	.3911	.2905	.2796	.2720
.025	.0973	-.1799	-.3169	-.0214	.0997
.050	.2353	.0155	-.2636	.0829	.1400
.150	.1319	-.0849	-.1562	.1705	.1713
.300	-.0728	-.1695	.0032	.2446	.1893
.520	-.2481	-.2533	.3345	.3250	.0893
.695	-.5892	.2471	-.1574	.3380	.2777
.775	-.3912	.1647	.3237	.3068	.1668
.900		.1621	.2227	.1544	-.0372
					-.5399

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV54)

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = 4.249 MACH = 1.0980 O = 599.84 P = 710.72 RN/L = 3.1951

SECTION: ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.5020	.6970	.8390	.9250
K/CV	.6332	.3615	.2032	.0911	.0207		
.025	-.0233	-.3994	-.6029	-.3853	-.1374		
.050	.0202	-.3452	-.6341	-.3744	-.1312		
.150	.0555	-.2052	-.4475	-.4468	-.1322		
.300	-.1432	-.2638	-.2888	-.1804	-.3314		
.500	-.3378	-.3598	.1921	.3101	.1445		
.700	-.1549	-.1819	.3090	.2205	.2581		
.875	-.1453	.0326	.2737	.2493	.1458		
.900		.0094	.1578	.1306	-.0574		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBVES) ( 13 AUG 75 )

## REFERENCE DATA

CRPF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 PRF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRPF = 936.0620 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( 1 ) = -3.965 BETA ( 1 ) = -3.837 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768  
 ALPHA ( 2 ) = -3.963 BETA ( 2 ) = .195 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

## PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .900

## SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 .4941 .3556 .3758 .3998 .3234  
 .025 .3307 .2739 .4420 .4902 .4362  
 .050 .3280 .2763 .4133 .4668 .4048  
 .075 .2370 .1927 .3651 .3873 .3041  
 .100 .1289 .1254 .3857 .3507 .2320  
 .125 .0873 .0933 .5277 .4199 .0797  
 .150 .0855 .0839 .5010 .3173 .3346  
 .175 .2315 .3545 .3557 .3148 .3517  
 .200 .1053 .2002 .1564 .0943 .3517

## SECTION ( 2 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 .5715 .4952 .5775 .5855 .5486  
 .025 .0541 .1931 .0372 .1842 .1199  
 .050 .1861 .0429 .1778 .2373 .1960  
 .075 .0887 .0037 .2012 .2557 .2161  
 .100 .0264 .0172 .2933 .2805 .1858  
 .125 .1501 .2328 .4723 .3931 .0814  
 .150 .1501 .4487 .4674 .3119 .3196  
 .175 .2157 .3075 .3277 .0995 .3319  
 .200 .1142 .1582 .1269 .1027 .3343

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XEBV65)

ALPHA ( 1 ) = -3.957 BETA ( 3 ) = 4.274 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4778 .7467 .4013 .4260 .3502  
 .025 -.1891 -.6636 -.3177 -.0200 -.1311  
 .050 -.1171 -.5094 -.3073 -.0157 -.1329  
 .075 -.1410 -.3970 -.2642 .0001 -.0755  
 .100 -.2223 -.2282 -.1357 .0036 .0010  
 .125 -.2933 .1511 .2924 .0309 -.0736  
 .150 -.2343 .7470 -.1881 .3578 .1448 -.0122 -.2799  
 .175 -.2033 .2122 .3065 .3317 .1976 -.0236 -.3203  
 .200 -.0777 .0777 .1223 .1505 .0703 -.0968 -.3616

ALPHA ( 2 ) = .052 BETA ( 1 ) = -3.869 MACH = .90007

Q

P

RN/L

3.5759

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4372 .6795 .2912 .3251 .2451  
 .025 .3208 .2283 .4155 .4556 .3999  
 .050 .3038 .2240 .3939 .4304 .3678  
 .075 .1730 .1439 .3393 .3532 .2704  
 .100 .0822 .0831 .3584 .3195 .1991  
 .125 .1113 .6293 .4677 .3796 .0542  
 .150 -.1197 .4583 -.1723 .3709 .2765 -.2956  
 .175 -.2373 .3402 .3524 .3197 .2327 .0885 -.3051  
 .200 .1933 .1742 .1298 .0652 -.1114 -.2845

ALPHA ( 2 ) = .054 BETA ( 2 ) = .179 MACH = .90007

Q

P

RN/L

3.5759

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5275 .4036 .5115 .5211 .4647  
 .025 -.0022 -.2499 -.0508 .1608 .1048  
 .050 .1238 .1211 .1476 .2107 .1663  
 .075 .0207 .1059 .1709 .2253 .1831  
 .100 -.0990 .1556 .2603 .2468 .1547  
 .125 .2122 .2209 .4364 .3517 .0458  
 .150 -.2169 .4311 .1707 .3521 .2732 -.3187  
 .175 .2325 .2325 .3205 .2562 .0740 -.3343  
 .200 .1297 .1329 .0666 .0432 -.1351 -.3315

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C/R ORB VERTICAL

(XEBV65)

ALPHA ( 2 ) = .050 BETA ( 3 ) = 4.252 MACH = .90307 Q = 599.62 P = 1057.3 RN/L = 3.5759

SECTION 1 ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4218	.2757	.3208	.3547	.3850	
.025	-.2753	-.7212	-.3589	-.0498	-.1219	
.050	-.1934	-.6415	-.3324	-.0476	-.1087	
.150	-.1830	-.3724	-.3035	-.0413	-.0869	
.300	-.2840	-.2852	-.1866	-.0469	-.0343	
.520	-.4051	.1276	.2948	-.0036	-.1027	
.685	-.2236	.3269	.3658	.1211	-.0330	-.2887
.775	-.1257	.6205	.2750	.1881	-.0358	-.3197
.900		.0691	.0976	.1239	.0581	-.3460

ALPHA ( 3 ) = -.021 BETA ( 1 ) = -3.873 MACH = .89817 Q = 598.16 P = 1059.3 RN/L = 3.5705

SECTION 1 ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3739	.2264	.2098	-.2394	.1585	
.025	.2477	.1757	.3900	.4143	.3546	
.050	.1303	.1655	.3916	.3916	.3254	
.150	.1267	.0356	.3116	.3184	.2282	
.300	.0161	.0497	.3393	.2798	.1600	
.520	-.1426	.2527	.4440	.3476	.2446	
.685	-.2142	.4542	.4195	.3189	.2409	-.2532
.775	-.1572	.3378	.2855	.2427	.0627	-.2644
.900		.1916	.0982	.0346	-.1174	-.2482

ALPHA ( 3 ) = 4.021 BETA ( 2 ) = .193 MACH = .89817 Q = 598.16 P = 1059.3 RN/L = 3.5705

SECTION 1 ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4947	.3544	.4500	.4610	.3949	
.025	-.0650	-.2324	-.0672	.1366	.0763	
.050	.0755	-.0649	.1153	.1843	.1363	
.150	-.0262	-.0921	.1482	.1909	.1487	
.300	-.1329	-.0910	.2317	.2108	.1174	
.520	-.2442	.2044	.3881	.3073	.0137	
.685	-.2217	.4058	.3799	.3075	.2325	-.3137
.775	-.2205	.2578	.2854	.2196	.0420	-.3154
.900		.1240	.1016	.0070	.1522	-.3121

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TABLETATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

(XE8V65)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

Variable	Mean	Std. Dev.	Minimum	Maximum
AGE	35.21	10.54	21	50
SEX	1.50	.50	1	2
EDUC	13.50	2.50	10	16
INCOME	1059.30	598.16	246	2000
WAGE	808.17	246	246	1000
BETA	1.31	1.03	0	3
ANAL	1059.30	598.16	246	2000
ANAL	1059.30	598.16	246	2000

SECTION: Vertical

DEPENDENT VARIABLE CP

2/84	.1990	.3170	.4590	.6020	.6970	.8390	.9250
------	-------	-------	-------	-------	-------	-------	-------

X/CV	2203	2437	2738	2220
000	3710	-	-	-
005	3015	3595	-0736	-1061
050	2115	-3403	-0693	-0909
100	-2115	-3204	-0698	-0935
150	-3114	-2042	-0802	-0857
200	3118	3070	-0264	-1569
250	3325	3553	-0577	-2732
300	2314	2700	-0466	-2901
350	-2247	-2462	-1156	-2963
400	0022	0692	-	-

$\alpha = 7.976$      $\beta = -3.966$      $\gamma = .89873$      $Q = 598.61$      $P = 1058.8$      $RN/L = 3.5705$

SECRET : 11 SEP 1964

DEPENDENT VARIABLE CP

2.3V	.553	.317C	.4590	.6020	.6970	.8390	.9250
------	------	-------	-------	-------	-------	-------	-------

1000	17.0	1529	1508	0803
0000	1.30	3534	3776	3197
0000	1.33	3510	3577	2881
0000	1.35	3372	2903	1960
0000	1.37	3132	2546	1275
0000	1.12	4183	3073	0123
0000	1.30	3587	3082	2604
0000	1.30	3624	0371	2625
0000	1.33	0779	1497	2561
0000	1.33	1497	0095	
0000	1.33	1638	2811	
0000	1.33	3335	2134	
0000	1.33		0095	

$$\begin{array}{l} \text{S' PUA } \cdot \cdot = 7.62 \\ \text{BETA } (2) = .183 \\ \text{MACH} = .89873 \\ Q = 598.61 \\ P = 1058.8 \\ \text{RN/L} = 3.5706 \end{array}$$

2000

DEPENDENT VARIABLE CP

[illegible][illegible]

DATE 14 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 4 ) = 7.822 BETA ( 3 ) = 4.244 MACH = .89873 Q = 598.61 P = 1058.8 RVL = 3.5706  
(XEBV65)

SECTION 1 INVERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.1843
.025	.1702
.050	.1585
.075	.1485
.100	.1400
.125	.1327
.150	.1265
.175	.1213
.200	.1170
.225	.1135
.250	.1107
.275	.1085
.300	.1065
.325	.1042
.350	.1020
.375	.1000
.400	.0983
.425	.0963
.450	.0943
.475	.0920
.500	.0900
.525	.0885
.550	.0865
.575	.0842
.600	.0820
.625	.0800
.650	.0783
.675	.0765
.700	.0750
.725	.0735
.750	.0720
.775	.0705
.800	.0690
.825	.0675
.850	.0660
.875	.0645
.900	.0630
.925	.0615
.950	.0600
.975	.0585
.1000	.0570

ALPHA ( 5 ) = 11.907 BETA ( 1 ) = -3.854 MACH = .89780 Q = 598.05 P = 1060.0 RVL = 3.5707

SECTION 1 INVERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.0802
.025	.0742
.050	.0682
.075	.0622
.100	.0562
.125	.0502
.150	.0442
.175	.0382
.200	.0322
.225	.0262
.250	.0202
.275	.0142
.300	.0082
.325	.0022
.350	-.0038
.375	-.0098
.400	-.0158
.425	-.0218
.450	-.0278
.475	-.0338
.500	-.0398
.525	-.0458
.550	-.0518
.575	-.0578
.600	-.0638
.625	-.0698
.650	-.0758
.675	-.0818
.700	-.0878
.725	-.0938
.750	-.1000
.775	-.1060
.800	-.1120
.825	-.1180
.850	-.1240
.875	-.1300
.900	-.1360
.925	-.1420
.950	-.1480
.975	-.1540
.1000	-.1600

ALPHA ( 5 ) = 11.920 BETA ( 2 ) = .190 MACH = .89780 Q = 598.05 P = 1060.0 RVL = 3.5707

SECTION 1 INVERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV	DEPENDENT VARIABLE CP
.000	.3675
.025	.3559
.050	.3443
.075	.3327
.100	.3211
.125	.3095
.150	.2979
.175	.2863
.200	.2747
.225	.2631
.250	.2515
.275	.2399
.300	.2283
.325	.2167
.350	.2051
.375	.1935
.400	.1819
.425	.1703
.450	.1587
.475	.1471
.500	.1355
.525	.1239
.550	.1123
.575	.1007
.600	.0891
.625	.0775
.650	.0659
.675	.0543
.700	.0427
.725	.0311
.750	.0195
.775	.0079
.800	-.0037
.825	-.0153
.850	-.0269
.875	-.0385
.900	-.0501
.925	-.0617
.950	-.0733
.975	-.0849
.1000	-.0965

10  
11  
12  
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14  
15  
16

REGULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

0563 3049

AMES 11-07310A1481 -14CA/B/C/R CRB VERTICAL (XEB'65)

ALPHA = 1.297    CETA = 3    MACH = .89780    Q = 598.05    P = 1059.0    RWL = 3.5707

SECRET

DEPENDENT VARIABLE CP

2.64	.1530	.5170	.4590	.6020	.5970	.9390	.9250
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[illegible]



REFERENCE DATA

SREF = 2590.0000 SQ.FT.

LMREF = 474.8000 IN.

PMREF = 936.3680 IN.

SCALE = .0300

XMRP = 1076.6800 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

RUDDER = 5.000

BDFLAP = 16.300

R-ELVN = -4.000

SPPARK = 55.000

L-ELVN = -4.000

MACH = .500

ALPHA ( 1 ) = -4.037

BETA ( 1 ) = -7.846

MACH = .59482

Q = 591.26

P = 2387.4

RN/L = 4.8005

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP				
Z/BV		.1580	.3170	.4590	.6020	.6970 .8390 .9250
X/CV						
.000		-.0097	-.2830		-.3364	-.1644 -.1629
.025		.4953	.4606		.5471	.5224 .4517
.050		.4496	.4142		.5082	.4983 .4205
.100		.2935	.2917		.4113	.3938 .2976
.150		.1744	.2010		.3929	.3284 .2005
.200		-.0809	.2955		.4383	.3604 .0535
.250		-.2334	.4150	-.1752	.4251	.2681 -.1639
.300		-.2458	.2224	.2881	.2594	.1275 -.1594
.350			.0759	.0327	.0360	.0111 -.1314

SECTION ( 1 ) VERTICAL		DEPENDENT VARIABLE CP				
Z/BV		.1580	.3170	.4590	.6020	.6970 .8390 .9250
X/CV						
.000		.3565	.2298		.1870	.2783 .1459
.025		.3371	.2862		.4145	.4235 .3821
.050		.3070	.2665		.3759	.3902 .3438
.100		.1868	.1684		.3048	.3029 .2408
.150		.0728	.1057		.3043	.2717 .1616
.200		-.1507	.2391		.4111	.3421 .0487
.250		-.2392	.3747	-.1754	.3793	.2627 -.1934
.300		-.2342	.2456	.2437	.2198	.1644 -.2029
.350			.0333	-.0040	-.0013	-.0272 -.1746

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV66)

ALPHA ( 1 ) = -3.894 BETA ( 3 ) = .194 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8005

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5066	.4710	.5374	.5241	.4891	
.025	.0033	-.2191	-.0281	.0955	.0419	
.050	.1170	.0295	.1295	.1721	.1493	
.150	.0511	.0006	.1436	.1673	.1408	
.300	-.0364	-.0181	.2018	.1913	.1113	
.520	-.2129	.1739	.3634	.3149	.0467	
.685	-.2485	.3349	.3466	.2821	.2504	-.1764
.775	-.2270	.1904	.1825	.1723	.0808	-.1964
.900		-.0178	-.0514	-.0504	-.0403	-.1814

ALPHA ( 1 ) = -3.902 BETA ( 4 ) = 4.271 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8005

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3530	.2377	.3367	.2720	.2531	
.025	-.2708	-.4966	-.2973	-.2393	-.5717	
.050	-.2219	-.4038	-.2483	-.1943	-.4772	
.150	-.1754	-.2783	-.1387	-.1304	-.0622	
.300	-.1546	-.1473	.0171	.0469	.0275	
.520	-.2759	.0908	.2155	.2136	.0164	
.685	-.2716	.2420	.2081	.2060	.1810	-.2094
.775	-.2439	.1207	.1073	.1227	.0510	-.2034
.900		-.0752	-.0930	-.0923	-.0567	-.1864

ALPHA ( 1 ) = -3.917 BETA ( 5 ) = 8.333 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8005

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0313	-.3301	-.1656	-.1372	-.0944	
.025	-.5105	-.3475	-.5536	-.3602	-.3923	
.050	-.5198	-.7693	-.5259	-.3640	-.3548	
.150	-.6536	-.7715	-.4540	-.3533	-.2988	
.300	-.3121	-.3822	-.3711	-.3176	-.2291	
.520	-.3285	-.0453	-.2089	-.2174	-.2038	
.685	-.2855	.1018	-.1332	-.1789	-.2314	
.775	-.2606	.0326	-.1093	-.0587	-.2496	
.900		-.1608	-.1949	-.1673	-.1466	-.2293

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV66)

ALPHA ( 2 ) = .065 BETA ( 1 ) = -7.886 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0326	-.3488	-.4241	-.2447	-.2311
.025	.4533	.4162	.5002	.4753	.3993
.050	.4064	.3732	.4675	.4535	.3747
.150	.2626	.2629	.3813	.3503	.2621
.300	.1365	.1691	.3529	.2949	.1722
.520	-.0362	.2758	.4081	.3283	.0388
.685	-.2452	.4065	-.1651	.2954	-.1407
.775	-.2531	.2860	.2313	.2192	-.1393
.900		.0588	.0180	.0026	-.1199

ALPHA ( 2 ) = .075

BETA ( 2 ) = -3.862

MACH = .59550

Q

P = 592.43

RN/L = 2386.4

RN/L = 4.8075

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3040	.1717	.1154	.1971	.0582
.025	.2941	.2519	.3799	.3863	.3476
.050	.2649	.2265	.3443	.3580	.3143
.150	.1453	.1401	.2795	.2776	.2062
.300	.0440	.0739	.2762	.2458	.1408
.520	-.1539	.2227	.3844	.3150	.0339
.685	-.2432	.3661	-.1571	.3476	.2701
.775	-.2347	.2410	.2216	.1985	.1853
.900		.0316	-.0197	-.0179	-.0245

ALPHA ( 2 ) = .076

BETA ( 3 ) = .175

MACH = .59550

Q

P = 592.43

RN/L = 2386.4

RN/L = 4.8075

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4643	.4190	.4835	.4677	.4323
.025	-.0312	-.2401	-.0465	.0839	.0165
.050	.0828	-.0029	.1127	.1465	.1217
.150	.0118	-.0343	.1257	.1433	.1158
.300	-.0680	-.0395	.1818	.1660	.0903
.520	-.2259	.1599	.3352	.2836	.0359
.685	-.2463	.3228	-.1631	.2528	-.1544
.775	-.2275	.1842	.1803	.1487	-.1640
.900		-.0193	-.0622	-.0695	-.1376

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV66)

ALPHA ( 2 ) = .073 BETA ( 4 ) = 4.250 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2986	.1708	.2640	.2070	.1734
.025	-.3345	-.5140	-.3178	-.2337	-.5326
.050	-.2719	-.4594	-.2656	-.1960	-.4513
.100	-.2205	-.3124	-.1689	-.1827	-.1417
.150	-.1907	-.1640	-.0279	.0056	.0424
.200	-.2940	.0787	.1980	.1918	.0135
.250	-.2695	.2295	.1699	.1574	.1664
.300	-.2465	.1104	.1286	.0769	.0610
.350	-.0957	-.0957	-.0822	-.1219	-.0365
.400					-.1523

ALPHA ( 2 ) = .069 BETA ( 5 ) = 8.308 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION 2 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0939	-.4624	-.2584	-.1835	-.1381
.025	-.5696	-.5669	-.5678	-.3532	-.2807
.050	-.5774	-.6369	-.5567	-.3480	-.2650
.100	-.7163	-.6932	-.5009	-.3416	-.2279
.150	-.3412	-.7324	-.4519	-.3428	-.2042
.200	-.3481	-.0540	-.2354	-.2406	-.2002
.250	-.2606	.1347	-.1432	-.1951	-.1869
.300	-.2675	.0362	-.0849	-.1419	-.1876
.350	-.1559	-.1559	-.1327	-.1152	-.1819

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -7.899 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION 3 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0974	-.4041	-.5255	-.3272	-.2988
.025	.4153	.3749	.4501	.4227	.3414
.050	.3732	.3329	.4299	.4102	.3252
.100	.2215	.2279	.3505	.3270	.2235
.150	.1136	.1465	.3258	.2641	.1379
.200	-.1144	.0953	.3731	.2890	.0158
.250	-.2454	.0954	.3429	.2166	.1535
.300	-.2533	.0862	.2449	.1945	-.1243
.350		.0534	.0090	-.0003	-.1279

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV66)

ALPHA ( 3 ) = 4.024 BETA ( 2 ) = -3.854 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2620	.1119		.0548		.1136	.0328
.025	.2465	.2157		.3494		.3461	.3032
.050	.2184	.1972		.3095		.3209	.2703
.100	.1082	.1085		.2505		.2455	.1716
.200	.0089	.0521		.2547		.2151	.1041
.300	.1921	.2069		.3418		.2832	.0093
.400	.1245	.3542		.1478	.2379	.1972	.1482
.500	.2272	.2346	.2109	.1739	.1686	.0698	.1508
.600		.0356	.0228	.0220	.0192	.0302	.1512

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = .186 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4305	.3734		.4279		.4078	.3636
.025	.0594	.2294		.0585		.0659	.0035
.050	.0399	.0244		.0837		.1218	.0885
.100	.0216	.0538		.1033		.1232	.0873
.200	.0359	.0543		.1577		.1416	.0655
.300	.2339	.1603		.3013		.2552	.0141
.400	.2397	.4121	.1465	.2819	.2135	.1909	.1549
.500	.2099	.1840	.1538	.1324	.1284	.0477	.1634
.600		.0225	.0823	.0801	.0834	.0563	.1364

ALPHA ( 3 ) = 4.025 BETA ( 4 ) = 4.244 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2571	.1205		.1978		.1505	.1119
.025	.3351	.5216		.3337		.2221	.4908
.050	.3075	.4945		.2847		.1906	.3945
.100	.2554	.3129		.2124		.2238	.1504
.200	.2146	.1763		.0412		.0120	.0502
.300	.2903	.0677		.2009		.1962	.0140
.400	.2434	.1601	.2030	.1320	.1721	.1104	
.500	.2334	.1231	.1088	.1017	.0680	.0835	.1363
.600		.0839	.1322	.0833	.1020	.0026	.1223

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XE9V66)

ALPHA ( 3 ) = 4.031 BETA ( 5 ) = 8.294 MACH = .59494 Q = 591.36 P = 2386.7 RN/L = 4.8049

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1543	-.5658	-.3372	-.2243	-.1920
.025	-.6254	-.9912	-.5922	-.3410	-.2403
.050	-.6373	-.8939	-.5815	-.3282	-.2102
.100	-.7797	-.9582	-.5595	-.3323	-.1960
.150	-.3719	-.3695	-.5490	-.3569	-.1953
.200	-.3509	-.0672	-.2410	-.2791	-.2161
.250	-.2829	-.1574	-.1694	-.2099	-.2450
.300	-.2542	-.0845	-.0358	-.1254	-.1925
.350	-.1253	-.1199	-.0621	-.1527	-.1911
.400				-.1557	-.2005

ALPHA ( 4 ) = 7.869 BETA ( 1 ) = -7.888 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1492	-.4899	-.6073	-.4109	-.3993
.025	-.3802	-.3450	-.4085	-.3763	-.2885
.050	-.3416	-.3110	-.3927	-.3683	-.2821
.100	-.2063	-.2093	-.3311	-.3003	-.1937
.150	-.0979	-.1429	-.3095	-.2422	-.1118
.200	-.1125	-.3831	-.3493	-.2595	-.0164
.250	-.2742	-.3960	-.3189	-.2335	-.1793
.300	-.2353	-.2338	-.2398	-.1783	-.1918
.350	-.0927	-.0128	-.0214	-.0525	-.1892
.400				-.0437	-.1974

ALPHA ( 4 ) = 7.985 BETA ( 2 ) = -3.859 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.2359	-.0654	-.0039	-.0312	-.1110
.025	-.1962	-.1955	-.3228	-.3159	-.2682
.050	-.1799	-.1674	-.2855	-.2884	-.2298
.100	-.0770	-.0937	-.2264	-.2186	-.1447
.150	-.0109	-.0456	-.2416	-.1846	-.0776
.200	-.1579	-.2132	-.3202	-.2461	-.0198
.250	-.2470	-.3539	-.2860	-.1706	-.1629
.300	-.2208	-.2430	-.1594	-.0516	-.1584
.350		-.0307	-.0274	-.0315	-.1745

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ALPHA ( 4 ) = 7.991 BETA ( 3 ) = .178 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971  
(XEBV66)

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4098	.3316	.3754	.3495	.3003		
.000	-.0637	-.2414	-.0496	.0645	-.0007		
.025	.0209	-.0423	.0795	.1004	.0667		
.050	-.0423	-.0674	.0918	.0994	.0643		
.150	-.1135	-.0660	.1427	.1185	.0430		
.300	-.2445	.1519	.2713	.2230	-.0045		
.520	-.2397	.3954	.1788	.1625	-.1581		
.685	-.2001	.1839	.1490	.1009	.0350		
.775	-.0116	-.0829	.1094	.0959	-.0660		
.900			-.0954	-.0829	-.1493		

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = .4237 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2452	.0850	.1437	.0969	.0295		
.000	-.3536	-.5427	-.3506	-.2241	-.4604		
.025	-.3169	-.5337	-.3029	-.2066	-.3575		
.050	-.2395	-.3162	-.2569	-.2725	-.1028		
.150	-.2402	-.1837	-.0352	-.0113	.0297		
.300	-.3100	.0771	.1968	.1963	.0110		
.520	-.2290	.2321	.0915	.1756	-.1327		
.685	-.2171	.1263	.0848	.0426	-.1329		
.775	-.0745	-.1426	-.1000	-.1185	-.0388		
.900							

ALPHA ( 4 ) = 7.989 BETA ( 5 ) = 8.293 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	-.1880	-.6179	-.4137	-.2534	-.2511		
.000	-.5665	-.9579	-.6048	-.3269	-.2151		
.025	-.6828	-.5975	-.6305	-.3264	-.1997		
.150	-.6240	-.9550	-.5763	-.3298	-.1943		
.300	-.3677	-.3571	-.5882	-.3506	-.1999		
.520	-.3447	-.0553	-.2273	-.3188	-.2305		
.685	-.2540	.1342	-.0803	-.2702	-.2258		
.775	-.2607	-.1159	.0212	-.1590	-.2243		
.900			-.0182	-.1204	-.2035		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.846 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978  
 (XEBV66)

## SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1640	-.5940	-.7072	-.4887	-.4874
.025	.2223	.3210	.3726	.3301	.2323
.050	.2413	.2944	.3655	.3301	.2425
.075	.1211	.1879	.3166	.2732	.1712
.100	.0449	.1347	.2979	.2198	.0992
.125	-.1175	.2834	.3259	.2360	-.0194
.150	-.2226	.4149	.2972	.1611	-.1844
.175	-.2263	.3187	.2335	.0340	-.1848
.200		.1221	.0069	-.0518	-.1796

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = -3.839 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

## SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2518	.2360	-.2499	-.2542	-.1804
.025	.1629	.1737	.2894	.2805	.2272
.050	.1142	.1561	.2841	.2856	.1994
.075	.0583	.0917	.2125	.1942	.1114
.100	-.0407	.0332	.2237	.1642	.0534
.125	-.2060	.2139	.2301	.2139	-.0312
.150	-.2482	.3558	.2569	.1711	.1513
.175	-.2177	.2337	.1831	.1176	.0263
.200		.0703	-.0358	-.0494	-.1562

ALPHA ( 5 ) = 11.993 BETA ( 3 ) = .186 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

## SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3916	.3007	.3313	.3012	.2484
.025	-.0636	-.2510	-.0479	.0526	-.0056
.050	.0136	-.0582	.0582	.0777	.0418
.075	-.0493	-.0795	.0754	.0801	.0504
.100	.1203	-.0732	.1312	.0955	.0321
.125	-.2463	.1495	.2477	.1960	-.0063
.150	-.2337	.2335	.2297	.1547	.1440
.175	-.1195	.1833	.0967	.0801	.1389
.200		-.0113	-.1034	-.1053	-.0687



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ALPHA ( 5 ) = 11.980 BETA ( 4 ) = 4.247 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978  
(XEBV66)

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.2730	.0485	.0937	.0362	-.0290	
.025	-.3463	-.5617	-.3620	-.3620	-.2399	-.4425	
.050	-.2983	-.5552	-.3232	-.2249	-.3269		
.150	-.2317	-.3015	-.2871	-.3066	-.0528		
.300	-.12427	-.1907	-.0206	-.0258	-.0079		
.500	-.1388	.0743	.1842	.1852	-.0362		
.695	-.2112	.2333	-.1454	.1775	.0376	.1479	-.1537
.775	-.1202	.1261	.0783	.0512	.0222	.0302	-.1484
.900	-.0555	-.0555	-.11477	-.1227	-.1220	-.0592	-.1394

ALPHA ( 5 ) = 11.973 BETA ( 5 ) = 8.307 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/B	.1550	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.1987	.6390	-.5129	-.3243	-.2967	
.025	-.7349	-.9519	-.6376	-.6308	-.3308	-.2080	
.050	-.7552	-.8243	-.6395	-.3312	-.1963		
.150	-.4926	-.9630	-.6844	-.3474	-.1975		
.300	-.4617	-.5346	-.7012	-.3735	-.2058		
.500	-.4562	-.0536	-.1010	-.3450	-.2473		
.695	-.3491	.0860	.0193	-.3006	-.3481	-.2291	
.775	-.3202	.0134	.1060	-.0905	-.2921	-.2234	
.900		-.1414	-.2148	-.0266	-.0537	-.2364	-.2265

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AMES 1:-073(OA148) -140A/B/C/R ORB VERTICAL

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[illegible]

RUDDER =	.000	SPDRK =	55.000
BDFLAP =	22.500	L-ELVN =	-4.000
R-ELVN =	-4.000	MACH =	.900

ALPHA ( ) = -3.954      BETA ( ) = -3.849      MACH = .9057      Q = 600.66      P = 1058.0      RN/L = 3.6340

— 10 —

SECTION NUMBER	DEPENDENT VARIABLE CP
7.01	.5020
7.02	.4590
7.03	.6970
7.04	.8390
7.05	.9250

[illegible]

$\text{SE}(\beta) = 0.0000$   
 $\text{SE}(\sigma^2) = 0.0000$   
 $\text{MACH} = .192$   
 $\text{P} = .90057$   
 $\text{RN/L} = 1058.0$   
 $\text{RN/L} = 3.6340$

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SECTION	PERCENT	VARIABLE CP
1	1.520	.8390
2	1.620	.9550

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																
1970	5233	5234	5235	5236	5237	5238	5239	5240	5241	5242	5243	5244	5245	5246	5247	5248	5249	5250	5251	5252	5253	5254	5255	5256	5257	5258	5259	5260	5261	5262	5263	5264	5265	5266	5267	5268	5269	5270	5271	5272	5273	5274	5275	5276	5277	5278	5279	5280	5281	5282	5283	5284	5285	5286	5287	5288	5289	5290	5291	5292	5293	5294	5295	5296	5297	5298	5299	5300	5301	5302	5303	5304	5305	5306	5307	5308	5309	5310	5311	5312	5313	5314	5315	5316	5317	5318	5319	5320	5321	5322	5323	5324	5325	5326	5327	5328	5329	5330	5331	5332	5333	5334	5335	5336	5337	5338	5339	5340	5341	5342	5343	5344	5345	5346	5347	5348	5349	5350	5351	5352	5353	5354	5355	5356	5357	5358	5359	5360	5361	5362	5363	5364	5365	5366	5367	5368	5369	5370	5371	5372	5373	5374	5375	5376	5377	5378	5379	5380	5381	5382	5383	5384	5385	5386	5387	5388	5389	5390	5391	5392	5393	5394	5395	5396	5397	5398	5399	5400	5401	5402	5403	5404	5405	5406	5407	5408	5409	5410	5411	5412	5413	5414	5415	5416	5417	5418	5419	5420	5421	5422	5423	5424	5425	5426	5427	5428	5429	5430	5431	5432	5433	5434	5435	5436	5437	5438	5439	5440	5441	5442	5443	5444	5445	5446	5447	5448	5449	5450	5451	5452	5453	5454	5455	5456	5457	5458	5459	5460	5461	5462	5463	5464	5465	5466	5467	5468	5469	5470	5471	5472	5473	5474	5475	5476	5477	5478	5479	5480	5481	5482	5483	5484	5485	5486	5487	5488	5489	5490	5491	5492	5493	5494	5495	5496	5497	5498	5499	5500	5501	5502	5503	5504	5505	5506	5

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7001

ALPHA ( 1 ) = -3.959 BETA ( 3 ) = 4.272 MACH = .90057 Q = 600.66 P = 1058.0 RN/L = 3.6340  
 SECTION ( 1 ) VERTICAL (XEBV67)

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1500	.1590	.3170 .4590 .6020 .6970 .8390 .9250
.1500	.1752	.3494 .3052 .2475
.1500	.1646	.1480 .1829 .1482
.1500	.1102	.1675 .1733 .1326
.1500	.1348	.3101 .1848 .1182
.1500	.1267	.2988 .1872 .1503
.1500	.1346	.0220 .1203 .2347
.1500	.1323	.2093 .1240 .1167
.1500	.1248	.0988 .1803 .1575
.1500	.1029	.0245 .0562 .1149 .3702

ALPHA ( 2 ) = .049 BETA ( 1 ) = -3.871 MACH = .90130 Q = 601.04 P = 1056.9 RN/L = 3.6167  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.1580	.3170 .4590 .6020 .6970 .8390 .9250
.1580	.1345	.2814 .3147 .4151 .3466
.1580	.1154	.2173 .3588 .4002 .3396
.1580	.1025	.2145 .3402 .3742 .3211
.1580	.1587	.1283 .2850 .3015 .2300
.1580	.1047	.0610 .2850 .2640 .1594
.1580	.1149	.1553 .3317 .2939 .0126
.1580	.1248	.3100 .3635 .2372 .2999
.1580	.1231	.2084 .2340 .2021 .3176
.1580	.0955	.0592 .0044 .1644 .3129

ALPHA ( 2 ) = .052 BETA ( 2 ) = .177 MACH = .90130 Q = 601.04 P = 1056.9 RN/L = 3.6167  
 SECTION ( 1 ) VERTICAL

Z/BV	X/CV	DEPENDENT VARIABLE CP
.1580	.1580	.3170 .4590 .6020 .6970 .8390 .9250
.1580	.1529	.5072 .5081 .4102
.1580	.1054	.2514 .0489 .1272
.1580	.1233	.0654 .0988 .0627
.1580	.1164	.0124 .0947 .1418 .1133
.1580	.1013	.0914 .1676 .1735 .0986
.1580	.1245	.0767 .3302 .2677 .0026
.1580	.1272	.2651 .3231 .2909 .3071
.1580	.1213	.1477 .1934 .1697 .3111
.1580	.1030	.0300 .0256 .1665 .3248



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7003

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV67)

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = 4.2+3 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.6007

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3747	.2232	.1931	.1493	.0738	
.005	.3217	.1749	.15017	.1220	.1853	
.010	.2718	.1257	.14899	.2163	.1746	
.015	.2259	.0741	.15053	.2192	.1609	
.020	.1841	.0272	.13250	.2341	.1181	
.025	.1465	.0004	.2518	.1564	.2780	
.030	.1149	.1849	.2927	.1514	.3083	
.035	.0894	.1305	.1555	.1192	.3131	
.040	.0694	.0866	.1096	.0032	.1396	.3358
.045	.0533	.0533	.0696	.0032	.1396	.3358

ALPHA ( 4 ) = 7.935

BETA ( 1 ) =

MACH = .90040

Q = 600.32

P = 1057.8

RN/L = 3.5837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3260	.1629	.1785	.2576	.1890	
.005	.2806	.1175	.3098	.3389	.2765	
.010	.2399	.0739	.2774	.3176	.2556	
.015	.2031	.0393	.2394	.2479	.1673	
.020	.1707	.0056	.2017	.2105	.1002	
.025	.1433	.1271	.1634	.2443	.0401	
.030	.1200	.3750	.1306	.2547	.1609	.2742
.035	.1000	.2757	.1107	.1540	.0299	.2943
.040	.0829	.2154	.0822	.0437	.1950	.2936
.045	.0693	.1550	.0532	.0437	.1950	.2936

ALPHA ( 4 ) = 7.933

BETA ( 2 ) =

MACH = .90040

Q = 600.32

P = 1057.8

RN/L = 3.5837

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/B .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3770	.2234	.14057	.4013	.2856	
.005	.3252	.1655	.1644	.3491	.1044	
.010	.2753	.1175	.1388	.1285	.0479	
.015	.2305	.0728	.0531	.1080	.0701	
.020	.1905	.0339	.1312	.1267	.0526	
.025	.1549	.0422	.2826	.2042	.0458	
.030	.1249	.1703	.2741	.1390	.2812	
.035	.1000	.1157	.1513	.1212	.0472	.2965
.040	.0822	.0845	.0813	.0711	.2042	.3102
.045	.0693	.0693	.0693	.0693	.2042	.3102

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TABULATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

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AXES 11-073(0A148) 140A/B/C/R CRB VERTICAL

(XEB767)

ALPHA ( 4 ) = 7.232 BETA ( 3 ) = 4.242 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

SECTION 11-073 VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 )	1.690	3.170	4.590	6.020	6.970	8.390	9.250
1.000	.1355	.0850	-.0052				
1.000	-.5281	-.2370	-.2097				
1.000	-.1515	-.2333	-.1918				
1.000	-.1493	-.2389	-.1812				
1.000	-.2543	-.2559	-.2223				
1.000	-.2255	-.1423	-.2726				
1.000	-.1815	-.1604	-.1302	-.2933			
1.000	-.1121	-.1575	-.0905	-.3182			
1.000	-.1350	-.2547	-.1352	-.3310			

ALPHA ( 4 ) = 7.232 BETA ( 3 ) = 4.242 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

RN/L = 3.5762

SECTION 11-073 VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 )	1.690	3.170	4.590	6.020	6.970	8.390	9.250
1.000	.1014	.1573	.1018				
1.000	.2525	.3109	.2522				
1.000	.2157	.2912	.2302				
1.000	.2140	.2223	.1390				
1.000	.2341	.1922	.0727				
1.000	.3147	.2393	-.0678				
1.000	.2199	.2269	.1395	-.2697			
1.000	.2502	.1727	.1589	-.0545	-.3050		
1.000	.1142	.0551	-.0549	-.2597	-.3051		

ALPHA ( 4 ) = 7.232 BETA ( 3 ) = 4.242 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

RN/L = 3.5762

SECTION 11-073 VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 )	1.690	3.170	4.590	6.020	6.970	8.390	9.250
1.000	.3539	.3478	.2441				
1.000	-.1239	-.1571	-.1252				
1.000	.0014	.1008	.0205				
1.000	.0016	.0764	.0448				
1.000	.1106	.1017	.0251				
1.000	.1343	.1777	-.0751				
1.000	.2509	.1945	-.2947				
1.000	.2502	.0951	-.0730	-.3145			
1.000	.1046	-.0309	-.2295	-.3295			

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7005

ALPHA ( 5 ) = 11.953 BETA ( 3 ) = 4.261 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.5762  
(XEBV67)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.000	.3345	.1557	.0473	.0189	.1180	
.025	.1128	.15976		.16657	.3030	.2576	
.050	.0462	.14740		.16445	.2996	.2319	
.150	.1402	.13778		.15275	.3044	.2243	
.300	.3085	.13969		.11283	.3027	.2761	
.520	.4698	.10591		.1745	.0898	.2935	
.685	.3126	.1042	.2263	.1844	.0670	.3061	
.775	.2558	.0255	.0578	.0695	.0884	.3129	
.900		.0710	.0784	.0772	.0997	.1346	.3108

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7006

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV68) ( 13 AUG 75 )

## REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 935.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BDFLAP = 22.500 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .600

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -7.845 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .0150 -.2293 -.2142 -.0162 -.0390  
 .025 .4657 .4435 .5236 .4960 .4372  
 .050 .4294 .3945 .4749 .4636 .3937  
 .100 .2858 .2646 .3665 .3524 .2647  
 .150 .1525 .1610 .3191 .2750 .1682  
 .200 -.1100 .2035 .3484 .2749 .0214  
 .250 -.2550 .2729 -.1788 .3025 .2727 .1846  
 .300 -.2494 .1729 .1789 .1573 .1538 .0505 .2011  
 .350 -.0204 -.0562 -.0520 -.0560 -.1606

ALPHA ( 2 ) = -3.918 BETA ( 2 ) = -3.844 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347  
 SECTION ( 2 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV

.000 .3694 .2508 .3185 .3756 .2781  
 .025 .3219 .2641 .3491 .3591 .3128  
 .050 .3017 .2450 .3195 .3298 .2958  
 .100 .1760 .1446 .2477 .2434 .1884  
 .150 .0550 .0575 .2257 .2035 .1205  
 .200 -.1706 .1401 .3134 .2482 .0038  
 .250 -.2637 .2258 -.1856 .2702 .2425 .0038  
 .300 -.2393 .1162 .1367 .1214 .1164 .0255 .2278  
 .350 -.0576 -.0892 -.0793 -.0805 -.2186



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7007

ALPHA ( 1 ) = -3.895 BETA ( 3 ) = .193 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347  
 (XEBV68)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5046	.4655	.5338	.5338	.4992	.4341	
.025	-.0037	-.2609	-.1918	-.1918	-.0400	-.2288	
.050	.1028	.0015	.0444	.0444	.0645	.0498	
.150	.0357	-.0250	.0778	.0778	.0854	.0689	
.300	-.0548	-.0517	.1173	.1173	.1156	.0517	
.520	-.2414	.0746	.2542	.2542	.2084	-.0104	
.685	-.3683	.1791	-.1811	.2069	.1687	-.1976	
.775	-.1204	.0656	.0824	.0771	.0058	-.2106	
.900		-.1072	-.1330	-.1299	-.1256	-.0975	-.1953

ALPHA ( 1 ) = -3.903 BETA ( 4 ) = 4.270 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3316	.2031	.2371	.2371	.1393	.0991	
.025	-.2917	-.5548	-.4967	-.4967	-.3152	-.8084	
.050	-.2434	-.4454	-.3552	-.3552	-.2791	-.6525	
.150	-.2009	-.3274	-.2311	-.2311	-.2236	-.1753	
.300	-.1817	-.1939	-.0950	-.0950	-.1173	-.0864	
.520	-.3077	-.0332	.0762	.0762	.0573	-.0583	
.685	-.2926	.0991	-.1834	.0869	.1336	.0395	-.2428
.775	-.2562	-.0015	.0303	-.0107	.0127	-.0586	-.2487
.900		-.1755	-.1824	-.1938	-.1782	-.1159	-.2138

ALPHA ( 1 ) = -3.916 BETA ( 5 ) = 8.339 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0615	-.4121	-.3059	-.3059	-.3906	-.2442	
.025	-.5731	-.9399	-.6366	-.6366	-.6042	-.4748	
.050	-.5776	-.7955	-.6338	-.6338	-.5383	-.4328	
.150	-.7545	-.7578	-.5660	-.5660	-.5721	-.3826	
.300	-.3152	-.4479	-.4582	-.4582	-.5145	-.3409	
.520	-.3553	-.1404	-.3348	-.3348	-.3242	-.2885	
.685	-.3255	-.0292	-.1800	-.2321	-.2448	-.2789	
.775	-.2742	-.0828	-.0037	-.2250	-.1457	-.2693	
.900		-.6329	-.2012	-.2340	-.2545	-.1853	-.2772

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XE8V68)

ALPHA ( 2 ) = .067 BETA ( 1 ) = -7.888 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0378	-.3039	-.2931	-.1038	-.0904
.025	.4408	.4066	.4864	.4592	.3962
.050	.3973	.3557	.4402	.4308	.3653
.150	.2503	.2395	.3413	.3267	.2401
.300	.1214	.1358	.2971	.2547	.1542
.450	-.1255	.1898	.3324	.2576	.0310
.600	-.2627	.2830	-.1641	.2507	-.1227
.750	-.2590	.1644	.1627	.1345	.0597
.900		-.0312	-.0781	-.0652	-.0297

ALPHA ( 2 ) = .076 BETA ( 2 ) = -3.860 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3083	.1812	.2473	.2960	.1992
.025	.2835	.2286	.3258	.3274	.2907
.050	.2629	.2131	.2865	.3033	.2624
.150	.1344	.1193	.2218	.2175	.1615
.300	.0239	.0466	.2053	.1825	.0974
.450	-.1937	.1506	.2811	.2428	-.0336
.600	-.2718	.2173	-.1529	.2145	-.1734
.750	-.2395	.1162	.1168	.1015	.0244
.900		-.0542	-.0394	-.0979	-.1668

ALPHA ( 2 ) = .078 BETA ( 3 ) = .177 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4589	.4135	.4759	.4416	.3671
.025	-.0381	-.2845	-.1974	-.0578	-.2224
.050	.0534	.0229	.0210	.0439	.0324
.150	-.0055	-.0558	.0593	.0671	.0459
.300	-.0316	-.0752	.0920	.0912	.0308
.450	-.2321	.0600	.2221	.1814	-.0146
.600	-.2891	.1493	-.1655	.1957	-.1766
.750	-.2344	.0852	.0687	.0527	-.2038
.900		-.1170	-.1473	-.1356	-.1740

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV68)

AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

ALPHA ( 2 ) = .074 BETA ( 4 ) = 4.252 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2852	.1426	.1797	.0685	.0032
.025	-.3462	-.5480	-.4680	-.3235	-.7581
.050	-.2994	-.4898	-.3627	-.2861	-.6080
.100	-.2438	-.3531	-.2572	-.2492	-.2803
.150	-.2139	-.2108	-.1501	-.1732	-.0651
.200	-.3180	-.0133	.0714	.0579	-.0623
.250	-.2897	.0958	.0709	.0979	.0372
.300	-.2521	.0312	.0070	-.0183	-.1983
.350	-.1773	-.1773	-.1860	-.2004	-.2002
.400				-.0800	-.1783

ALPHA ( 2 ) = .069

BETA ( 5 ) = 8.307

MACH = .59556

Q

= 592.68

P

= 2387.2

RN/L

= 4.8372

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1088	-.5128	-.3953	-.4142	-.2996
.025	-.6022	-1.0349	-.6798	-.5500	-.3920
.050	-.6148	-.8797	-.6592	-.5717	-.3663
.100	-.7980	-.9033	-.6420	-.5169	-.3326
.150	-.3578	-.4419	-.6189	-.4600	-.3107
.200	-.3824	-.1167	-.3757	-.3375	-.2562
.250	-.3064	.0302	-.1732	-.2310	-.2473
.300	-.2874	.0557	-.0421	-.1842	-.2451
.350		-.2196	-.2440	-.2133	-.2407
.400				-.2027	

ALPHA ( 3 ) = 4.022

BETA ( 1 ) = -7.901

MACH = .59644

Q

= 594.20

P

= 2386.1

RN/L

= 4.8448

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0883	-.3764	-.3983	-.1808	-.1565
.025	-.4058	.3630	.4388	.4133	.3463
.050	.3554	.3234	.4058	.3904	.3223
.100	.2157	.2064	.3149	.2965	.2130
.150	.1006	.1195	.2796	.2347	.1261
.200	-.1327	.970	.2355	.2321	.0119
.250	-.2611	.2559	.2213	.1733	-.1132
.300	-.2499	.1671	.1250	.1222	-.0413
.350		-.0235	-.0744	-.0663	-.1019
.400					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XESV68)

ALPHA ( 3 ) = 4.025 BETA ( 2 ) = -3.862 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.2720	.1315	.1886	.2221	.1251
.025	.2352	.1992	.2976	.2976	.2610
.050	.2234	.1751	.2660	.2759	.2327
.075	.2075	.1503	.2359	.1933	.1385
.100	.1875	.1255	.2051	.1607	.0733
.125	.1633	.1012	.1758	.1267	-.0112
.150	.1350	.0775	.1468	.0935	-.1511
.175	.1027	.0540	.1182	.0624	-.1499
.200	.0654	.0315	.0905	-.0635	-.1358

ALPHA ( 3 ) = 4.023 BETA ( 3 ) = .182 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.4294	.3673	.4252	.3870	.3038
.025	.3819	.3208	.4178	-.0831	-.2276
.050	.3304	.2616	.3694	.0344	.0076
.075	.2753	.2016	.3145	.0472	.0290
.100	.2153	.1351	.2605	.0710	.0149
.125	.1504	.0639	.2003	.1569	-.0354
.150	.0833	.0012	.1348	.1224	-.1227
.175	.0126	-.0612	.0627	.0249	-.1594
.200	-.0526	-.1143	-.0157	-.1052	-.1892

ALPHA ( 3 ) = 4.027 BETA ( 4 ) = 4.243 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	.2508	.0902	.1101	-.0055	-.0806
.025	.2104	.0506	.0546	-.3268	-.6734
.050	.1688	.0255	-.3805	-.2989	-.5426
.075	.1269	.0042	-.2951	-.2985	-.3840
.100	.0840	-.0123	-.1680	-.2138	-.0307
.125	.0308	-.0181	.0841	.0759	-.0644
.150	-.0227	.0935	.0825	.0530	-.1698
.175	-.0743	.0064	-.0079	-.0392	-.0046
.200	-.1243	-.1134	-.1701	-.1909	-.0585

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL (XEBV68)

ALPHA ( 3 ) = 4.033 BETA ( 5 ) = 8.290 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1677	-.5764		-.4863		-.4115	-.3303
.025	-.6540	-1.0572		-.7294		-.4619	-.3220
.050	-.6770	-.9193		-.7218		-.4641	-.3039
.150	-.8389	-1.0143		-.7114		-.4631	-.2747
.300	-.3030	-.4376		-.7027		-.4466	-.2612
.520	-.3223	-.1401		-.3636		-.3803	-.2398
.695	-.3101	.0175	-.1724	-.1860	-.3136	-.3249	-.2200
.775	-.2740	-.0404	-.0724	-.0671	-.2365	-.2857	-.2271
.900		-.2100	-.2822	-.1200	-.2256	-.2436	-.2384

ALPHA ( 4 ) = 7.982 BETA ( 1 ) = -7.890 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.1335	-.4500		-.4876		-.2747	-.2377
.025	.3709	.3234		.3968		.3615	.2934
.050	.3208	.2955		.3721		.3456	.2748
.150	.1933	.1928		.2958		.2638	.1760
.300	.0919	.1033		.2555		.2060	.0951
.520	-.1416	.1772		.2723		.2022	-.0202
.695	-.2567	.2569	-.1492	.2363	.2011	.1350	-.1776
.775	-.2422	.1746	.1479	.1144	.1108	.0171	-.1764
.900		-.0046	-.0699	-.0607	-.0569	-.0640	-.1753

ALPHA ( 4 ) = 7.933 BETA ( 2 ) = -3.860 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

## SECTION 1 INVERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2451	.0398		.1261		.1461	.0489
.025	.1819	.1567		.2713		.2682	.2215
.050	.1701	.1481		.2360		.2421	.2006
.150	.0591	.0517		.1797		.1687	.1097
.300	-.0354	.0059		.1621		.1319	.0438
.520	-.2079	.1120		.2294		.1722	-.0314
.695	-.2714	.2077	-.1509	.1955	.1606	.1244	-.1617
.775	-.2326	.1193	.0943	.0651	.0675	-.0097	-.1628
.900		-.1544	-.1130	-.1152	-.1062	-.0753	-.1635

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB VERTICAL

(XEBV68)

ALPHA ( 4 ) = 7.99; BETA ( 3 ) = .185 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4016	.3257	.3730	.3301	.2418		
.500	-.0735	-.3218	-.1880	-.1131	-.2315		
.625	.0024	-.0714	-.0076	.0242	-.0239		
.750	-.0571	-.0959	.0223	.0242	.0057		
.875	-.1332	-.1060	.0661	.0487	-.0051		
.900	-.2723	.0506	.1766	.1335	-.0549		
.925	-.2539	.1579	-.1452	.1219	.0972		
.950	-.2450	.0627	.0449	.0167	-.0394		
.975							
.990							

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = 4.234 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2313	.0491	.0651	-.0625	-.1566		
.500	-.3755	-.5711	-.4511	-.3320	-.5953		
.625	-.3234	-.5675	-.4015	-.3098	-.4882		
.750	-.2852	-.3492	-.3423	-.3475	-.3307		
.875	-.2533	-.2309	-.1412	-.1975	-.0414		
.900	-.3428	-.0126	.0973	.0939	-.0729		
.925	-.2546	.0345	.0938	.0395	-.1963		
.950	-.2297	.0065	-.0205	-.0477	-.2078		
.975							
.990							

ALPHA ( 4 ) = 7.990 BETA ( 5 ) = 8.288 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2097	-.3242	-.5591	-.4328	-.3866		
.500	-.1897	-.1002	-.7478	-.4455	-.2993		
.625	-.1732	-.0359	-.7594	-.4448	-.2875		
.750	-.0879	-.1058	-.7651	-.4476	-.2710		
.875	-.3300	-.4460	-.7737	-.4563	-.2583		
.900	-.3335	-.1546	-.2639	-.4030	-.2562		
.925	-.3769	-.0247	-.0465	-.3751	-.2491		
.950	-.2435	-.0269	-.0875	-.2158	-.2475		
.975							
.990							

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TABULATED PRESSURE DATA - DA148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORB VERTICAL

(XE8V68)

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -7.852 MACH = .59556 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1416	-.5462	-.5612	-.3519	-.3216
.025	.2843	.3065	.3573	.3251	.2489
.050	.2348	.2731	.3430	.3190	.2446
.100	.0396	.1726	.2754	.2405	.1510
.150	.0207	.1014	.2372	.1824	.0753
.200	-.1548	.1856	.2523	.1774	-.0355
.250	-.2487	.2825	.2179	.1817	-.1691
.300	-.2534	.2007	.0933	.0927	-.1671
.350	.0167	-.0715	-.0550	-.0539	-.0751
.400					-.1755

ALPHA ( 5 ) = 11.978 BETA ( 2 ) = -5.840 MACH = .59556

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2635	.0557		.0555	.0674	-.0103	
.000				.2929	.2397	.1911	
.025	.1631	.1375		.2202	.2161	.1682	
.050	.0318	.0512		.1358	.1420	.0737	
.100	-.0640	-.0036		.1568	.1037	.0200	
.150	-.2385	.1182		.2097	.1373	-.0632	
.200	-.2707	.2184		.1743	.1415	-.0913	
.250	-.2363	.1752		.0518	.0450	-.1759	
.300		-.0278		-.1105	-.1189	-.1100	-.1675

RN/L = 4.8403

P = 2386.7

Q = 594.57

Z

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.2635	.0557		.0555	.0674	-.0103	
.000				.2929	.2397	.1911	
.025	.1631	.1375		.2202	.2161	.1682	
.050	.0318	.0512		.1358	.1420	.0737	
.100	-.0640	-.0036		.1568	.1037	.0200	
.150	-.2385	.1182		.2097	.1373	-.0632	
.200	-.2707	.2184		.1743	.1415	-.0913	
.250	-.2363	.1752		.0518	.0450	-.1759	
.300		-.0278		-.1105	-.1189	-.1100	-.1675

ALPHA ( 5 ) = 11.981 BETA ( 3 ) = .186 MACH = .59556

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3563	.2923		.3290	.2803	.1953	
.000				.1845	-.1250	-.2351	
.025	-.0771	.3075		-.0094	.0185	-.0202	
.050	-.0025	-.0823		.0139	.0115	.0101	
.100	-.0702	-.1035		.0515	.0370	-.0175	
.150	-.1493	-.1119		.1549	.1125	-.0629	
.200	-.2327	.1463		.1029	.0803	-.1699	
.250	-.2512	.1602		-.0007	-.0355	-.1911	
.300	-.2327	.1501		-.1700	-.1255	-.1718	

RN/L = 4.8403

P = 2386.7

Q = 594.57

Z

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP





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TABULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV69) ( 13 AUG 75 )

## REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPCBPK = 55.000  
 BOFLAP = 22.500 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .500

ALPHA ( 1 ) = -3.989 BETA ( 1 ) = -3.851 MACH = .8987 Q = 599.88 P = 1058.2 RV/L = 3.6263

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.000	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.025	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.050	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.075	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.100	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.125	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.150	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.175	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.200	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.225	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.250	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.275	.4943	.3595	.4051	.4955	.4273	.3655	.3537
.300	.4943	.3595	.4051	.4955	.4273	.3655	.3537

ALPHA ( 1 ) = -3.987 BETA ( 2 ) = .189 MACH = .8987 Q = 599.88 P = 1058.3 RV/L = 3.6263

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/B	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.000	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.025	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.050	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.075	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.100	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.125	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.150	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.175	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.200	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.225	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.250	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.275	.5769	.4973	.5736	.5659	.4729	.4148	.3864
.300	.5769	.4973	.5736	.5659	.4729	.4148	.3864

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV69)

ALPHA ( 1 ) = -3.92; BETA ( 3 ) = 4.272 MACH = .69987 Q = 599.68 P = 1058.3 RN/L = 3.6263

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .159 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4778	.3457	.3501	.3044	.2319
.025	-.1679	-.1636	-.4631	-.1765	-.1432
.050	-.1037	-.1592	-.4395	-.1698	-.1266
.100	-.1221	-.2684	-.4225	-.1804	-.1150
.150	-.1957	-.2289	-.2172	-.1928	-.1505
.200	-.3018	.0257	.2352	-.1055	-.2457
.250	-.2311	.2119	.3220	.1496	-.0979
.300	-.2742	.1035	.1836	.1875	-.3054
.350	-.0259	.0253	.0512	.0292	-.3324
.400				-.1008	-.3514

ALPHA ( 2 ) = .009 BETA ( 1 ) = -3.668 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6047

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4348	.2715	.3224	.4075	.3427
.025	.3362	.2438	.3711	.3957	.3337
.050	.3175	.2337	.3413	.3723	.3181
.100	.1862	.1456	.2302	.3011	.2246
.150	.1669	.1339	.2339	.2609	.1557
.200	-.1310	.1658	.3598	.2694	.0133
.250	-.2363	.3148	.3626	.3170	-.3034
.300	-.2301	.2657	.2349	.1971	-.3131
.350		.0937	.0554	-.0008	-.3173

ALPHA ( 2 ) = .010 BETA ( 2 ) = .177 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6047

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5325	.4166	.5076	.5048	.3945
.025	.3117	-.3232	-.1628	-.0448	-.1208
.050	.1798	.2053	.0877	.1163	.0568
.100	.0489	.2323	.1083	.1452	.1143
.150	.2557	-.0562	.1700	.1702	.0961
.200	-.2289	.0910	.3282	.2584	.0006
.250	-.2503	.2630	.3207	.2852	-.3080
.300	-.2171	.1543	.2034	.1634	-.3174
.350		.0347	.0157	-.0315	-.3318

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV69)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

ALPHA ( 2 ) = .007 BETA ( 3 ) = 4.253 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6047

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4232	.2730	.2819	.2312	.1450
.025	-.2743	-.7004	-.4887	-.1902	-.1531
.050	-.1747	-.6397	-.4726	-.1843	-.1431
.100	-.1757	-.3562	-.4398	-.1907	-.1261
.150	-.2507	-.2609	-.2426	-.2068	-.1613
.200	-.3450	.0117	.2494	-.1255	-.2559
.250	-.4596	.2201	.3039	.1373	-.1209
.300	-.5835	.1034	.1579	.1807	-.3014
.350	-.7266	-.0235	.0017	.0161	-.3557

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -3.869 MACH = .90083 Q = 600.76 P = 1057.6 RN/L = 3.5915

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3810	.2273	.2500	.3283	.2744
.025	.2611	.1919	.3417	.3597	.3037
.050	.2531	.1767	.3127	.3354	.2827
.100	.1292	.0985	.2537	.2644	.1924
.150	.0259	.0239	.2630	.2270	.1246
.200	-.1573	.1445	.3533	.2230	-.0143
.250	-.2494	.3178	.3345	.2755	-.2640
.300	-.3295	.2038	.2410	.1684	-.2893
.350	-.4295	.0669	.0760	-.0270	-.2923

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = .179 MACH = .90083 Q = 600.78 P = 1057.6 RN/L = 3.5915

SECTION ( INVERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5046	.3682	.4417	.4455	.3263
.025	-.0501	-.2730	-.1593	-.0558	-.1194
.050	.0946	-.0442	.0670	.1149	.0454
.100	-.0095	-.0779	.0810	.1171	.0915
.150	-.1227	-.0981	.1422	.1445	.0678
.200	-.2610	.0712	.2834	.2249	-.0287
.250	-.2957	.2551	.2730	.2468	-.2848
.300	-.4175	.1452	.1799	.1322	-.3007
.350	-.5213	.0295	.0214	-.0594	-.3115

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.979 BETA ( 3 ) = 4.341 MACH = .89993 Q = 500.24 P = 1058.8 RN/L = 3.5857  
 AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV69)

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.000	.3291	.1755	.1440	.0885	-.0133	
.025	-.2876	-.1635	-.5074	-.2358	-.2042		
.050	-.1672	-.16538	-.5048	-.2353	-.1893		
.150	-.1767	-.15865	-.4715	-.2367	-.1793		
.300	-.2877	-.2903	-.2422	-.2467	-.2264		
.520	-.3709	-.0271	-.2135	-.1233	-.2824		
.685	-.2732	.1457	-.1484	.2305	.1580		
.775	-.2494	.0586	.1171	.1230	.1285		
.900		-.0413	-.0305	-.0326	-.0539	-.1317	-.3169

ALPHA ( 5 ) = 11.955 BETA ( 1 ) = -3.853 MACH = .90010 Q = 600.36 P = 1058.5 RN/L = 3.5793

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.000	.3497	.1591	.1283	.1750	.1132	
.025	-.0209	.0160	.2815	.2815	.3107	.2479	
.050	.0614	.0404	.2488	.2488	.2886	.2210	
.150	-.0298	-.0198	.2113	.2113	.2211	.1350	
.300	-.1243	-.0553	.2304	.2304	.1790	.0699	
.520	-.2389	.1020	.3156	.3156	.2091	-.0679	
.685	-.2963	.3096	-.1901	.2872	.2273	.1253	
.775	-.2456	.2226	.0347	.1681	.1243	-.0529	-.3035
.900		.1193	.0737	.0042	-.0661	-.2062	-.3139

ALPHA ( 5 ) = 11.955 BETA ( 2 ) = .189 MACH = .90010 Q = 600.36 P = 1058.5 RN/L = 3.5793

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CO	.000	.3831	.2430	.2505	.3494	.2451	
.025	-.0398	-.2898	-.1962	-.1962	-.0686	-.1459	
.050	.0388	-.1533	-.0053	-.0053	.1001	.0101	
.150	-.0820	-.1504	.0401	.0401	.0795	.0396	
.300	-.1895	-.1573	.1095	.1095	.1036	.0243	
.520	-.2962	.0395	.2461	.2461	.1778	-.0745	
.685	-.2784	.2065	-.1798	.2397	.1967	.1083	-.2901
.775	-.2389	.1228	.1596	.1216	.0902	-.0676	-.3012
.900		.0216	.0072	-.0365	-.0911	-.2213	-.3137

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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(XEBV69)

AMES 11-073(OA148) -140A/B/C ORB VERTICAL

ALPHA ( 5 ) = 11.948 BETA ( 3 ) = 4.260 MACH = .90010 Q = 600.36 P = 1059.5 RN/L = 3.5793

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z-BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3455	.1587	.0780	-.0112	-.1246
.025	-.1247	-.6152	-.5776	-.2952	-.2510
.050	-.0522	-.4966	-.5615	-.2924	-.2302
.100	-.1325	-.3707	-.4746	-.3012	-.2240
.150	-.2950	-.3370	-.1783	-.3078	-.2837
.200	-.4134	-.0496	.1710	-.0922	-.2998
.250	-.2986	.1143	-.1926	.1395	-.3183
.300	-.2587	.0327	-.0735	.0794	-.3349
.350		-.0564	-.0802	-.0794	-.3353

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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1XEBV70) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 I/L XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPOBRK = 55.000  
 BOFLAP = 22.500 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .600

ALPHA ( 1 ) = -3.949 BETA ( 1 ) = -7.852 MACH = .59666 0 = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.0230	-.2383	-.2067	-.0443	-.0560		
.000	.000	.000	.000	.000	.000		
.025	.5005	.4569	.5297	.5033	.4412		
.050	.4470	.4057	.4856	.4686	.4033		
.075	.2976	.2784	.3785	.3566	.2691		
.100	.1533	.1746	.3226	.2833	.1725		
.125	-.0984	.2023	.3545	.2785	.0220		
.150	-.2456	.2819	.3092	.2809	.2176		
.175	-.2419	.1803	.1875	.1696	.1592		
.200	-.0122	-.0428	-.0348	-.0417	-.0457		

ALPHA ( 1 ) = -3.933 BETA ( 2 ) = -3.843 MACH = .59666 0 = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3674	.2584	.2832	.3881	.2897		
.000	.3334	.2728	.3645	.3511	.3142		
.025	.3085	.2558	.3275	.3287	.2942		
.050	.1804	.1548	.2592	.2456	.1931		
.075	.0860	.0724	.2302	.2074	.1233		
.100	-.1671	.1434	.3150	.2637	.0145		
.125	-.2555	.2347	.2752	.2477	.2049		
.150	-.2338	.1299	.1435	.1223	.0314		
.175	-.0506	-.0790	-.0708	-.0755	-.0736		
.200							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV70)

ALPHA ( 1 ) = -3.929 BETA ( 3 ) = .189 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.5095	.4740	.5385	.5060	.4420
.025	.0050	-.2375	-.1682	-.0312	-.2026
.050	.1153	.0191	.0553	.0715	.0554
.075	.0519	-.0159	.0828	.0913	.0735
.100	-.0503	-.0443	.1208	.1196	.0561
.125	-.2339	.0707	.2570	.2125	-.0014
.150	-.2593	.1854	-.1882	.2101	.1772
.175	-.2275	.0700	.0909	.0798	.0106
.200		-.1035	-.1272	-.1142	-.0769

ALPHA ( 1 ) = -3.935 BETA ( 4 ) = 4.269 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3407	.2080	.2554	.0931	.1001
.025	-.2744	-.5353	-.3768	-.4023	-.7414
.050	-.2216	-.4341	-.3307	-.3462	-.6270
.075	-.1850	-.3026	-.2200	-.1564	-.2218
.100	-.1712	-.1842	-.0902	-.0581	-.0651
.125	-.2998	.0612	.0924	.0603	-.0369
.150	-.2865	.1069	.0978	.0281	-.2084
.175	-.2508	.0080	.0385	.0226	-.2004
.200		-.1655	-.1714	-.1559	-.1130

ALPHA ( 1 ) = -3.949 BETA ( 5 ) = 8.334 MACH = .59666 Q = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.0502	-.4048	-.3120	-.3735	-.2499
.025	-.5442	-.9520	-.6413	-.5249	-.4540
.050	-.5604	-.7739	-.6141	-.5334	-.4327
.075	-.7153	-.7781	-.5701	-.5251	-.3714
.100	-.3029	-.4417	-.5206	-.4941	-.3306
.125	-.3580	-.1236	-.3373	-.3331	-.2874
.150	-.3032	-.0114	-.1906	-.1332	-.2874
.175	-.2695	-.0696	-.0007	-.1393	-.2902
.200		-.2257	-.1970	-.2548	-.2768



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .049 BETA ( 1 ) = -7.888 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452  
 (XEBV70)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.0325	-.2986		-.2965	-.1207	-.1189	
.025	.4507	.4131		.4827	.4610	.4006	
.050	.4038	.3634		.4407	.4293	.3665	
.100	.2611	.2490		.3463	.3276	.2470	
.150	.1351	.1450		.2993	.2627	.1566	
.200	-.1150	.1952		.3307	.2623	.0331	
.250	-.2548	.2698	-.1659	.2842	.2547	.2085	-.1116
.300	-.2548	.1666	.1692	.1493	.1429	.0675	-.1344
.350	-.2331	-.0572	-.0683	-.0572	-.0454	-.0215	-.0954

ALPHA ( 2 ) = .056 BETA ( 2 ) = -3.864 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.3159	.1955		.2203	.3153	.2056	
.025	.2896	.2395		.3337	.3300	.2832	
.050	.2702	.2208		.2955	.3017	.2655	
.100	.1418	.1251		.2305	.2241	.1663	
.150	.0259	.0498		.2069	.1857	.0598	
.200	-.1831	.1293		.2842	.2333	-.0033	
.250	-.2590	.2227	-.1682	.2463	.2187	.1874	-.1876
.300	-.2331	.1202	.1298	.1041	.1013	.0273	-.1761
.350		-.0572	-.0968	-.0850	-.0640	-.0684	-.1658

ALPHA ( 2 ) = .058 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4654	.4175		.4760	.4412	.3734	
.025	-.0272	-.2652		-.1720	-.0497	-.2057	
.050	.0783	-.0144		.0349	.0552	.0360	
.100	.0357	-.0457		.0632	.0762	.0521	
.150	-.0795	-.3542		.1008	.1019	.0398	
.200	-.2512	.0550		.2257	.1893	-.0111	
.250	-.2671	.1759	-.1694	.2025	.1820	.1569	-.1720
.300	-.2344	.0697	.0745	.0585	.0606	.0027	-.1800
.350		-.1026	-.1408	-.1318	-.1226	-.0832	-.1751

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV70)

ALPHA ( 2 ) = .056 BETA ( 4 ) = 4.251 MACH = .59628 Q = 593.97 P = 2386.4 RV/L = 4.8452

SECTION ( 1 ) VERTICAL  
Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
.000 .2914 .1548 .1846 .0222 .0048  
.025 .3288 .5432 .4042 .4164 .7038  
.050 .2795 .4749 .3492 .3754 .5690  
.150 .2236 .3302 .2578 .1643 .3047  
.300 .1974 .1934 .1286 .0963 .0381  
.520 .3058 .0115 .0888 .0406 .0459  
.695 .2818 .1040 .0926 .0252 .1801  
.775 .2463 .0196 .0066 .0191 .0343 .1742  
.900 .1654 .1908 .1702 .1837 .0682 .1804

ALPHA ( 2 ) = .051 BETA ( 5 ) = 8.306 MACH = .59628 Q = 593.97 P = 2386.4 RV/L = 4.8452

SECTION ( 1 ) VERTICAL  
Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
.000 .1130 .4903 .3839 .3627 .2819  
.025 .5993 .9936 .6721 .4776 .3544  
.050 .6000 .8438 .6716 .4809 .3355  
.150 .7574 .8307 .6322 .4840 .2951  
.300 .3432 .4159 .6016 .4769 .2724  
.520 .3625 .1202 .3455 .3429 .2367  
.695 .2941 .0116 .2100 .2796 .2181  
.775 .2659 .0451 .1463 .2459 .2510  
.900 .2135 .2438 .1906 .2291 .1943 .2484

ALPHA ( 3 ) = 4.000 BETA ( 1 ) = -7.898 MACH = .59578 Q = 593.03 P = 2386.8 RV/L = 4.8456

SECTION ( 1 ) VERTICAL  
Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
.000 .0752 .3537 .3976 .1678 .1621  
.025 .4126 .3570 .4412 .4154 .3489  
.050 .3658 .3302 .4081 .3906 .3194  
.150 .2242 .2213 .3181 .2345 .2140  
.300 .1051 .1286 .2758 .2280 .1282  
.520 .1260 .1854 .2999 .2322 .0134  
.695 .2537 .2622 .2564 .2251 .1788 .1144  
.775 .2532 .1674 .1545 .1200 .0510 .1234  
.900 .0226 .0754 .0693 .0587 .0322 .1073

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.002 BETA ( 2 ) = -3.861 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456  
 AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV70)

## SECTION 11 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2710	.1364	.1677	.2325	.1326		
.025	.2503	.2035	.3067	.3020	.2548		
.050	.2204	.1814	.2670	.2788	.2348		
.100	.1009	.0963	.2064	.1979	.1396		
.150	.0010	.0295	.1856	.1606	.0809		
.200	-.1921	.1317	.2604	.2107	-.0091		
.250	-.2618	.2158	-.1608	.1972	-.1566		
.300	-.2252	.1191	.0932	.0865	-.0199		
.350	-.0558	-.0335	-.0821	-.0549	-.1413		

ALPHA ( 3 ) = 4.000 BETA ( 3 ) = .182 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

## SECTION 11 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.4322	.3718	.4270	.3896	.3066		
.025	-.0569	-.2828	-.1594	-.0806	-.2088		
.050	.0407	-.0431	.0208	.0523	.0168		
.100	-.0223	-.0645	.0449	.0523	.0295		
.150	-.1059	-.0799	.0835	.0757	.0184		
.200	-.2591	.0652	.2057	.1630	-.0298		
.250	-.2570	.1677	-.1614	.1522	-.1731		
.300	-.2797	.0052	.0624	.0392	-.0129		
.350	-.1055	-.1534	-.1454	-.0392	-.1743		

ALPHA ( 3 ) = 4.003 BETA ( 4 ) = 4.239 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

## SECTION 11 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.2543	.0996	.1201	-.0396	-.0775		
.025	-.3457	-.5387	-.4259	-.4089	-.6364		
.050	-.3091	-.5119	-.3713	-.4011	-.5037		
.100	-.2590	-.3403	-.2344	-.1964	-.3579		
.150	-.2270	-.2083	-.1551	-.1695	-.0168		
.200	-.3158	-.0181	.0929	.0685	-.0418		
.250	-.2612	.0111	.1004	.0621	-.0584		
.300	-.2292	.0021	.0018	-.0290	.0104		
.350	-.1589	-.2032	-.1500	-.1732	-.0477		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - (40A/B/C ORB VERTICAL

(XE8V70)

ALPHA ( 3 ) = 4.009 BETA ( 5 ) = 8.292 MACH = .59578 Q = 593.03 P = 2386.8 RN/L = 4.8456

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	-.1631	-.5800	-.4715	-.3913	-.3335
.025	-.6325	-1.0433	-.7026	-.4471	-.3170
.050	-.6499	-.6971	-.7066	-.4500	-.2878
.100	-.8143	-.9953	-.6939	-.4547	-.2760
.200	-.3705	-.4057	-.6956	-.4637	-.2593
.300	-.3200	-.1312	-.3313	-.3750	-.2312
.400	-.1913	.0334	-.1609	-.2921	-.2250
.500	-.1313	.0335	-.0719	-.2287	-.2256
.600	-.2698	-.0335	-.1160	-.2217	-.2220
.700		-.1150			

ALPHA ( 4 ) = 7.945

BETA ( 1 ) =

-7.890 MACH = .59630

Q = 593.97

P = 2386.4

RN/L = 4.8482

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	-.1317	-.4594	-.4843	-.2496	-.2496
.025	-.3792	-.3384	-.3946	-.3667	-.2915
.050	-.3276	-.3017	-.3700	-.3509	-.2753
.100	-.2019	-.1990	-.2904	-.2649	-.1775
.200	-.0897	-.1135	-.2571	-.2075	-.0951
.300	-.1365	-.1841	-.2713	-.2042	-.0186
.400	-.2564	-.2628	-.1675	-.2340	-.1547
.500	-.2519	-.1794	-.1470	-.1090	-.1592
.600		.0013	-.0606	-.0514	-.1684

ALPHA ( 4 ) = 7.956

BETA ( 2 ) =

-3.860 MACH = .59630

Q = 593.97

P = 2386.4

RN/L = 4.8482

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CO

.000	-.2459	-.0770	.1130	.1604	.0692
.025	.1906	.1704	.2736	.2687	.2204
.050	.1778	.1569	.2397	.2454	.1992
.100	.0635	.0718	.1845	.1729	.1109
.200	-.0253	.0793	.1729	.1373	.0529
.300	-.1973	.1205	.2357	.1828	-.0311
.400	-.2537	.2130	.1653	.1677	.1290
.500	-.2340	.1273	.1064	.0750	-.0040
.600		-.1041	-.0993	-.0970	-.1705
.700					
.800					
.900					

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ALPHA ( 4 ) = 7.955 BETA ( 3 ) = .181 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482  
(XEBV70)

SECTION ( 1 ) VERTICAL									
Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
DEPENDENT VARIABLE CP									
X/0V	.4072	.3323	.3765	.3328	.2505				
.000	-.0722	-.2893	-.1661	-.1097	-.2204				
.025	.0269	-.0528	.0060	.0306	-.0074				
.050	-.0478	-.0793	.0367	.0367	.0093				
.150	-.1269	-.0943	.0688	.0622	-.0032				
.300	-.2652	.0608	.1789	.1367	-.0488				
.520	-.2548	.1590	.1534	.1293	-.1045				
.695	-.2136	.0689	.0492	.0218	-.0393				
.775			-.1497	-.1557	-.1439				
.900						-.1090			-.1894

ALPHA ( 4 ) = 7.955 BETA ( 4 ) = 4.234 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

SECTION ( 1 ) VERTICAL									
Z/2V	.1520	.3170	.4590	.6020	.6970	.8390	.9250		
DEPENDENT VARIABLE CP									
X/0V									
.000	.2311	.0588		.0604		-.0959	-.1558		
.025	-.3573	-.5510		-.4416		-.3954	-.5617		
.050	-.3301	-.5437		-.3383		-.3980	-.4519		
.150	-.2553	-.3356		-.3336		-.2368	-.2942		
.300	-.2455	-.2215		-.1256		-.2316	-.0336		
.520	-.3317	-.0190		.0945		.0971	-.0531		
.685	-.2487	.1005		.0936		.1024	-.1911		
.775	-.2319	.0134		-.0142		-.0381	.0013		
.900		-.1550		-.2097		-.1873	-.0799		

ALPHA ( 4 ) = 7.954 BETA ( 5 ) = 8.280 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

SECTION ( 1 ) VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250	DEPENDENT VARIABLE CP	
X/0V									
.000	-.1992	-.6380		-.5440		-.4349	-.3906		
.025	-.6555	-.10158		-.7172		-.4450	-.2916		
.050	-.5709	-.9389		-.7155		-.4429	-.2824		
.150	-.6254	-.10310		-.7200		-.4642	-.2749		
.300	-.3754	-.3348		-.7410		-.4727	-.2678		
.520	-.3915	-.1435		-.2806		-.3831	-.2652		
.695	-.2778	-.0448	-.1766	-.0716	-.3494	-.3565	-.2454		
.775	-.2849	-.0097	-.0762	-.0227	-.2357	-.2980	-.2508		
.900		-.2333	-.2685	-.0945	-.1916	-.2473	-.2522		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV70)

ALPHA ( 5 ) = 11.925 BETA ( 1 ) = -7.848 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	-.1625	.0492	.0511	.0930	-.0066
.025	.2931	.1555	.2617	.2464	.1903
.050	.2455	.1408	.2230	.2234	.1669
.075	.1165	.0591	.1700	.1513	.0830
.100	-.0510	.0024	.1501	.1211	.0245
.125	-.2334	.1192	.2149	.1568	-.0556
.150	-.2733	.2282	-.1491	.1433	.1296
.175	-.2227	.1451	.1543	.0651	.0114
.200		-.0135	-.0631	-.1148	-.1106
					-.0950
					-.2072

ALPHA ( 5 ) = 11.942 BETA ( 2 ) = -3.851 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.2632	.0476	.0476	.0829	-.0146
.025	.1895	.1518	.2619	.2434	.1971
.050	.1759	.1437	.2282	.2251	.1725
.075	.0510	.0637	.1718	.1533	.0865
.100	-.0519	.0032	.1632	.1169	.0246
.125	-.2314	.1130	.2152	.1336	-.0588
.150	-.2769	.2267	.1782	.1459	.1047
.175	-.2354	.1457	.0604	.0523	-.0277
.200		-.0199	-.1115	-.1122	-.1039
					-.1990

ALPHA ( 5 ) = 11.947 BETA ( 3 ) = .192 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 VERTICAL

Z/B: .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.3913	.2979	.3351	.2959	.1959
.025	-.0642	.2395	-.1603	-.1229	-.1988
.050	.0099	.0701	.0009	.0305	-.0170
.075	-.0592	-.0380	.0246	.0261	-.0045
.100	-.1365	-.1257	.0622	.0438	-.0186
.125	-.2724	.0486	.1616	.1223	-.0618
.150	-.2591	.1059	.1400	.0901	-.1765
.175	-.2206	.0754	.0448	.0154	-.2009
.200		-.0359	-.1539	-.1593	-.1957

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.942 BETA ( 4 ) = 4.245 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434  
 (XEBV70)

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1583	.3170	.4590	.5020	.6970	.8390	.9250
X/CV							
.000	.2692	.0316		.0002		-.1466	-.2236
.025	-.3356	-.5997		-.4518		-.3980	-.4979
.050	-.3059	-.5595		-.4011		-.4039	-.4289
.100	-.2416	-.3195		-.3796		-.2899	-.2356
.150	-.2570	-.2220		-.1192		-.2399	-.0684
.200	-.3322	-.0143		.0931		.1025	-.0816
.250	-.2336	.1025		.0871	.0163	.0871	-.2078
.300	-.2293	.0153	-.1599	-.0191	-.0616	-.0309	-.2208
.350		-.1407	-.2052	-.1107	-.1176		-.2154

ALPHA ( 5 ) = 11.935 BETA ( 5 ) = 8.309 MACH = .59584 Q = 593.15 P = 2386.7 RN/L = 4.8434

SECTION 1 ( VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1583	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	-.2093	-.6742		-.6316		-.4944	-.4551
.025	-.7539	-.1014		-.7443		-.4651	-.2996
.050	-.7860	-.9305		-.7622		-.4616	-.2883
.100	-.4397	-.1014		-.7809		-.4911	-.2958
.150	-.4624	-.4240		-.6232		-.5201	-.2939
.200	-.4755	-.1336		-.1659		-.3930	-.2918
.250	-.3684	-.0225	-.1759	.0121	-.3751	-.3824	-.2732
.300	-.3423	-.0777	-.0995	.0350	-.1952	-.3359	-.2697
.350		-.1274	-.2750	-.1242	-.1112	-.2619	-.2772

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV71) ( 13 AUG 75 )

## REFERENCE DATA

SPCF = 2930.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.6120 IN. YMRP = .0000 IN. YO  
 BREF = 355.0030 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0020

ALPHA ( 1 ) = -3.9+5 BETA ( 1 ) = -3.857 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096

## SECTION 1 ( INVERTICAL

Z/BV .1550 .1170 .4590 .5020 .6970 .8390 .9250

X/YCV

	.1550	.1170	.4590	.5020	.6970	.8390	.9250
.000	.7234	.6753		.6478	.6766	.7032	
.025	.6166	.5210		.4688	.4893	.5162	
.050	.5324	.4227		.4621	.4878	.5221	
.075	.4632	.3431		.3904	.4717	.4932	
.100	.4092	.2814		.3259	.4957	.4578	
.125	.3624	.2084		.5123	.5832	.3255	
.150	.3241	.2798		.5135	.5576	.1527	
.175	.2941	.2097	-1.135	.4417	.4636	.1485	
.200	.2631	.1577	.3726	.3785	.3921	.1527	
.225			.3011		.2136	.2495	

ALPHA ( 2 ) = -3.9+5 BETA ( 2 ) = .190 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096

## SECTION 1 ( INVERTICAL

Z/BV .1550 .3170 .4590 .5020 .6970 .8390 .9250

X/YCV

	.1550	.3170	.4590	.5020	.6970	.8390	.9250
.000	.8372	.753		.7059	.6907	.6496	
.025	.7277	.6173		.6449	.6081	.5190	
.050	.6430	.5227		.5659	.5494	.4659	
.075	.5735	.4531		.5005	.4840	.4027	
.100	.5175	.3971		.4443	.4278	.3487	
.125	.4724	.3520		.4092	.3927	.3149	
.150	.4361	.3269		.3785	.3620	.2860	
.175	.4061	.3011		.3511	.3346	.2600	
.200	.3811	.2798	-1.157	.3241	.3076	.2330	
.225	.3591	.2577	.2701	.2930	.2765	.2020	
.250	.3391	.2377	.1959		.2511	.1765	

## PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = 1.400



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = .346 BETA ( 3 ) = 4.272 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096  
 (XEBV71)

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7562	.6699	.6154	.5259	.3809		
.000	.0913	-.0748	-.2948	-.4933	-.4803		
.025	.1265	-.0826	-.3146	-.4940	-.4738		
.050	.2035	.0328	-.0792	-.3690	-.4485		
.075	.2108	.0981	-.0057	.0873	-.0068		
.100	.0459	.0128	.1587	.3393	.2260		
.125	.0375	.1030	-.1124	.2501	.2741		
.150	-.0376	.0447	.1812	.2463	.2933		
.175	-.1372	-.0360	.1129	.2053	.2330		
.200				.1352	-.2475		

ALPHA ( 2 ) = .015 BETA ( 1 ) = -3.873 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9088

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7189	.5934	.5727	.5622	.5978		
.000	.5388	.4476	.3912	.3964	.4241		
.025	.5039	.4457	.3902	.3931	.4334		
.050	.4551	.4372	.3223	.3570	.3987		
.075	.3180	.2493	.2879	.4194	.3904		
.100	.0334	.1158	.4423	.5325	.2905		
.125	-.1335	.6155	.4353	.5003	.1753		
.150	-.2592	.1172	.3705	.4064	.1815		
.175	-.3645	.0399	.2293	.3166	.1842		
.200					-.2852		

ALPHA ( 2 ) = .022 BETA ( 2 ) = .180 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9088

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.7514	.6755	.6231	.5724	.5739		
.000	.2024	.1322	-.0190	-.0288	-.1207		
.025	.2685	.2339	.0535	-.0074	-.0731		
.050	.2182	.2129	.1705	.1714	.1819		
.075	.2037	.1503	.1424	.1898	.2937		
.100	.0022	.0682	.1057	.4555	.2777		
.125	-.0331	.1275	.1345	.3679	.4515		
.150	-.1345	.0753	.1934	.3245	.3176		
.175			.1291	.2493	.1528		
.200					-.2620		

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TABULATED PRESSURE DATA - OA148 ( AXES 11-073-1 )

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ALPHA = 0 BETA ( 3 ) = 0.18 MACH = 4.248 Q = 600.56 P = 439.47 RNU/L = 2.9092  
 ORB VERTICAL  
 DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .597+ .5356 .4678 .3137  
 .005 .0710 .3336 .4937 .5522  
 .010 .0210 .2522 .4918 .5235  
 .015 .0000 .1522 .3631 .4417  
 .020 .0000 .0000 .0123 .0748  
 .025 .0000 .0000 .0015 .2723 .1761  
 .030 .0000 .0000 .0000 .3322 .2034  
 .035 .0000 .0000 .0000 .2214 .2184  
 .040 .0000 .0000 .0000 .1421 .1565 .1072 .2593

ALPHA = 3 BETA ( 1 ) = -3.877 MACH = 1.3961  
 ORB VERTICAL  
 DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .597+ .5356 .4678 .3137  
 .005 .0710 .3336 .4937 .5522  
 .010 .0210 .2522 .4918 .5235  
 .015 .0000 .1522 .3631 .4417  
 .020 .0000 .0000 .0123 .0748  
 .025 .0000 .0000 .0015 .2723 .1761  
 .030 .0000 .0000 .0000 .3322 .2034  
 .035 .0000 .0000 .0000 .2214 .2184  
 .040 .0000 .0000 .0000 .1421 .1565 .1072 .2593

ALPHA = 3 BETA ( 2 ) = .179 MACH = 1.3961  
 ORB VERTICAL  
 DEPENDENT VARIABLE CP

Z/BV .1550 .3170 .4590 .6020 .6970 .8390 .9250

X/CV  
 .000 .597+ .5356 .4678 .3137  
 .005 .0710 .3336 .4937 .5522  
 .010 .0210 .2522 .4918 .5235  
 .015 .0000 .1522 .3631 .4417  
 .020 .0000 .0000 .0123 .0748  
 .025 .0000 .0000 .0015 .2723 .1761  
 .030 .0000 .0000 .0000 .3322 .2034  
 .035 .0000 .0000 .0000 .2214 .2184  
 .040 .0000 .0000 .0000 .1421 .1565 .1072 .2593

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.955 BETA ( 3 ) = 4.242 MACH = 1.3961 Q = 600.56 P = 440.18 RN/L = 2.9092  
 (XEBV71)

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5920	.5441		.4558		.3984	.2683
.025	-.1237	-.1582		-.3729		-.4943	-.5665
.050	-.0217	-.1429		-.3860		-.4872	-.5346
.100	.1483	-.0338		-.1518		-.3539	-.4337
.150	.0375	-.0180		-.0885		-.0419	-.0768
.200	-.0752	-.1000		.0602		.2166	.1241
.250	-.3857	-.0169	-.1503	.1390	.1738	.2692	-.2236
.300	-.3898	-.0645	.0515	.1152	.1519	.1968	-.2431
.350		-.1255	-.0038	.0802	.0971	.0612	-.3050

ALPHA ( 4 ) = 7.997 BETA ( 1 ) = -3.873 MACH = 1.3969 Q = 600.27 P = 439.47 RN/L = 2.9090

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.5956	.4844		.4268		.3792	.3697
.025	.2635	.2346		.2426		.2547	.2384
.050	.4022	.3037		.2435		.2464	.2541
.100	.2651	.2167		.1857		.1957	.2272
.150	.1540	.1254		.1426		.2461	.2514
.200	.0391	.0367		.3052		.4359	.1717
.250	-.4078	.1330	-.1685	.3076	.3211	.3520	-.2273
.300	-.775	.0703	.1750	.2330	.2652	.2495	-.2525
.350		.0107	.1235	.1866	.2131	.1239	-.3408

ALPHA ( 4 ) = 7.995 BETA ( 2 ) = .177 MACH = 1.3969 Q = 600.27 P = 439.47 RN/L = 2.9090

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6323	.5249		.4406		.3772	.3236
.025	.1979	.0404		-.0819		-.0931	-.1402
.050	.3503	.2128		-.0223		-.1002	-.0943
.100	.2943	.1135		.0593		.0529	.0479
.150	.1138	.0337		.0294		.0422	.0854
.200	-.0399	-.0516		.1718		.2891	.1553
.250	-.4316	.0411	-.1625	.2077	.2321	.2864	-.2341
.300	-.4017	-.0135	.0893	.1443	.1790	.2047	-.2578
.350		-.0259	.0274	.0954	.1227	.0768	-.3358



**PAGE 7035**

(XEBV)

DEPENDENT VARIABLE CP

**.9250**

..1748  
..5337  
..5306  
..3826  
..1255  
..0220  
..2476  
..3093  
..3661

**81.045**

DEPENDENT VARIABLE CP

**.9250**

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..2278  
..1344  
..1408  
..0930  
..1415  
..1056  
..2577  
..2791  
..3649

440.18

DEPENDENT VARIABLE CP

**.9250**

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..1985  
..1941  
..1411  
..0370  
..0370  
..0508  
..2814  
..3073  
..3527

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DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 7036**

(XEBV71)

AMES 11-073(OA148) -140A/B/C ORB VERTICAL

**PN/L = 2.9185**

**BI-04h**

2

**= 600.45**

**= 1.3960**

BETA (3)

6, = 15.

५॥

SECTION, INVERTICAL

DEPENDENT VARIABLE CP

Z/84	.1580	.3170	.4590	.6020	.6970	.8390	.9250
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X/CV

[illegible]

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7037

(XEBV72) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## REFERENCE DATA

ZREF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 47.4 8000 IN. YMRP = .0000 IN. YO  
 WREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -3.854 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068  
 ALPHA ( 2 ) = -3.937 BETA ( 2 ) = .190 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .7691 .6280 .6056 .4271 .6916 .6828  
 .025 .5974 .4592 .4271 .5439 .5221  
 .050 .6176 .4628 .4166 .5377 .5233  
 .100 .4859 .3644 .3454 .4953 .4702  
 .150 .3324 .2723 .3376 .4819 .4272  
 .200 .1615 .1474 .5284 .5403 .2399  
 .250 .3259 .2232 .5103 .4867 .4957 .2520  
 .300 .3117 .2273 .4333 .4286 .3034 .2346  
 .350 .3124 .3335 .3123 .1110 .3334

## SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .8161 .6971 .6682 .4309 .6775 .5614  
 .025 .2777 .0988 -.0309 -.1369 -.0707  
 .050 .4427 .2928 .0624 -.0355 -.0351  
 .100 .3809 .2156 .1686 .2172 .3040  
 .150 .2250 .1456 .1440 .3387 .3358  
 .200 .0515 .0453 .3802 .4728 .2213  
 .250 .4359 .1253 .4057 .4309 .2751  
 .300 .3777 .0360 .2424 .3554 .2572 .2515  
 .350 .1746 .2514 .2557 .0729 .3178

## PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = 1.250

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7038

(XEBV72)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

ALPHA ( 1 ) = -3.943 BETA ( 3 ) = 4.266 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7509	.6195	.5815	.5473	.5145	.4825	.4510
.025	.0784	-.1653	-.3983	-.5473	-.6970	-.8390	-.9250
.050	.1125	-.1552	-.3959	-.5473	-.6970	-.8390	-.9250
.100	.1937	-.0340	-.1043	-.4941	-.6970	-.8390	-.9250
.150	.2635	.0218	-.0509	-.1145	-.2329	-.3211	-.4026
.200	.3255	.0532	.1437	.2057	.2413	.2665	.2804
.250	.3804	.0378	.1007	.2057	.2413	.2665	.2804
.300	.4280	.0150	.1452	.1920	.2457	.2867	.3221
.350	.4616	-.0150	.1452	.1920	.2457	.2867	.3221
.400	.4816	-.0770	.0560	.1351	.1707	.2045	.2341

ALPHA ( 2 ) = .035 BETA ( 1 ) = -3.865 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6999	.5560	.5247	.4934	.4621	.4308	.4000
.025	.5170	.3650	.3377	.3114	.2851	.2588	.2325
.050	.5305	.3310	.3331	.3177	.2924	.2671	.2418
.100	.4191	.2330	.2635	.2748	.2748	.2671	.2418
.150	.2635	.1945	.2149	.2341	.2446	.2541	.2635
.200	.0902	.0695	.0995	.1423	.1994	.2446	.2798
.250	.3430	.1545	.1218	.1001	.0724	.0446	.0168
.300	.3579	.0314	.2660	.3691	.2748	.2671	.2418
.350	.3579	.0314	.2660	.3691	.2748	.2671	.2418
.400	.3579	.0314	.2660	.3691	.2748	.2671	.2418

ALPHA ( 2 ) = .050 BETA ( 2 ) = .176 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) VERTICAL

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7603	.6248	.5842	.5442	.5042	.4642	.4242
.025	.2077	.0333	-.0739	-.1180	-.1621	-.2062	-.2503
.050	.3858	.2378	.0039	-.0354	-.0851	-.1351	-.1851
.100	.3259	.1520	.1054	.1244	.1434	.1624	.1814
.150	.1587	.0650	.0787	.1244	.1624	.2004	.2384
.200	.0207	-.0150	.2701	.2573	.2445	.2317	.2189
.250	.3430	.1545	.1218	.1001	.0724	.0446	.0168
.300	.3579	.0314	.2660	.3691	.2748	.2671	.2418
.350	.3579	.0314	.2660	.3691	.2748	.2671	.2418
.400	.3579	.0314	.2660	.3691	.2748	.2671	.2418



DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 2 ) = .045 BETA ( 3 ) = 4.247 MACH = 1.2470 U = 599.89 P = 551.11 RN/L = 3.0108  
(XEBV72)

SECTION ( 1 ) VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.6900	.5559	.4978	.3890	.2317	.6096	-.5477		
.000	-.0464	-.2047	-.4290	-.6096	-.5477	-.6096	-.5477		
.025	.0341	-.2026	-.4342	-.6068	-.5255	-.6068	-.5255		
.050	.1353	-.0714	-.1684	-.5063	-.4804	-.5063	-.4804		
.150	.300	.0918	-.0153	-.1285	-.2375	-.0053	-.2375		
.300	-.0800	-.1130	.0897	.2262	.0997	.2262	.0997		
.520	-.5110	-.0193	.1620	.1904	.2535	.2535	.3005		
.685	-.4295	.0738	.1417	.1890	.1551	.1551	.3024		
.775	-.1505	.0923	.1088	.0003	-.3868	.0003	-.3868		
.900									

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -3.876 MACH = 1.2481 O = 600.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.6310	.4971	.4464	.4290	.4656	.2741	.3290		
.000	.3324	.3063	.2570	.2741	.3290	.2741	.3290		
.025	.4203	.3185	.2574	.2720	.3282	.2603	.2853		
.050	.3241	.2223	.1897	.2603	.2853	.3052	.2662		
.150	.1519	.1259	.1417	.307	.4039	.1489	.3140		
.300	.0302	.0175	.3307	.3219	.3708	.2205	.3317		
.520	-.0302	.0926	.3185	.2851	.2205	.2205	.3317		
.685	-.5130	.0280	.2560	.1928	.0387	.0387	.4028		
.775	-.3744	.0280	.1854	.1942	.1928	.0387	.4028		
.900		-.0135	.1124	.1942	.1928	.0387	.4028		

ALPHA ( 3 ) = 3.983 BETA ( 2 ) = .181 MACH = 1.2481 O = 600.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) VERTICAL									
Z/8V	.1580	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV	.7113	.5543	.4954	.4509	.4357	.1416	.2506		
.000	.1712	.0315	-.1171	-.1416	-.2506	-.1416	-.2506		
.025	.3414	.1942	-.0289	-.0697	-.2027	-.0697	-.2027		
.050	.2806	.0979	.0407	.0579	.0824	.0579	.0824		
.150	.1112	.0196	.0171	.1527	.2020	.1527	.2020		
.300	-.0507	-.0655	.1954	.3453	.1344	.3453	.1344		
.520	-.1492	.2254	.2554	.3212	.3254	.3212	.3254		
.685	-.5153	.0225	.2266	.2130	.1845	.2130	.1845		
.775	-.0146	.0541	.1594	.1382	.0102	.1382	.0102		
.900		-.1170	.1077	.1382	.0102	.1382	.0102		

AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV72)

$\alpha_{\text{beta}}(3) =$	3.994	$\beta_{\text{eta}}(3) =$	4.240	MACH	=	1.2481	O	=	600.17	P	=	550.40	RN/L	=	3.0052
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## SECTION : VERTICAL

SECTION : VERTICAL

DEPENDENT VARIABLE CP

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100	5187	5013	4169	3261	1635
90	6792	2557	4494	6463	5885
80	0178	2152	4494	6477	5704
70	1035	0970	2239	3560	5257
60	0435	0558	1135	0977	2412
50	1133	1132	0358	1778	1250
40	4437	1572	1133	2200	3102
30	4133	1773	0932	1233	3549
20		1923	0015	0380	4248
10			0515	0452	4248
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$$r = 0.933, \quad r_{STA} = 0.91 =$$

SECRET

SECTION 1: HORIZONTAL DEPENDENT VARIABLE CP

DEPENDENT VARIABLE CP

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SECTION 1 (REVISED)

DEPENDENT VARIABLE: CO

DEPENDENT VARIABLE C8

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[illegible]

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7041

ALPHA ( 4 ) = 7.943 BETA ( 3 ) = 4.235 MACH = 1.2470 Q = 599.90 P = 551.11 RN/L = 3.0127  
 SECTION ( INVERTICAL )  
 Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

(XEBV72)

DEPENDENT VARIABLE CP

X/CV

.000 .6409 .4845 .3408 .2583 .1029  
 .025 .0811 .2390 .4739 .6284 .5907  
 .050 .1329 .2130 .5046 .6336 .5797  
 .100 .1653 .0767 .2254 .3704 .5290  
 .200 .0209 .1220 .1878 .2902 .2902  
 .300 .1916 .2140 .0013 .1372 .0425  
 .400 .4703 .1282 .0731 .0969 .1593 .3211  
 .500 .4364 .1816 .0592 .0278 .0640 .0770 .3885  
 .600 .2273 .1144 .0190 .0037 .0568 .4147

ALPHA ( 5 ) = 12.023 BETA ( 1 ) = -3.855 MACH = 1.2460 Q = 599.73 P = 551.81 RN/L = 3.0130

SECTION ( INVERTICAL )

DEPENDENT VARIABLE CP

Z/BV

.1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6651 .4732 .3115 .2541 .2645  
 .025 .2756 .1933 .1385 .1585 .2121  
 .050 .3532 .2135 .1390 .1535 .2128  
 .100 .2135 .1135 .0804 .1316 .1797  
 .200 .0425 .0051 .0449 .1995 .1647  
 .300 .0715 .0053 .2505 .3215 .0532  
 .400 .4514 .0726 .2314 .2331 .2500 .3293  
 .500 .4437 .0018 .1185 .1876 .1446 .3586  
 .600 .0039 .0539 .1130 .1153 .0015 .4355

ALPHA ( 5 ) = 12.037 BETA ( 2 ) = .182 MACH = 1.2460 Q = 599.73 P = 551.81 RN/L = 3.0130

SECTION ( INVERTICAL )

DEPENDENT VARIABLE CP

Z/BV

.1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .6749 .4495 .3425 .2682 .3165  
 .025 .1715 .0551 .1873 .2040 .2649  
 .050 .3088 .1233 .1090 .1870 .2112  
 .100 .2682 .0145 .0524 .0574 .0405  
 .200 .0242 .0693 .0791 .0285 .0702  
 .300 .1451 .1594 .0856 .2128 .0463  
 .400 .4549 .0518 .1628 .1355 .2066 .3541  
 .500 .4358 .1215 .0103 .0899 .1051 .3941  
 .600 .1269 .1063 .0078 .0321 .0412 .4356

PAGE 13  
QUALITY

DATE 14 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7042

AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV72)

ALPHA ( 5 ) = 12.032 BETA ( 3 ) = 4.249 MACH = 1.2460 O = 599.73 P = 551.81 RV/L = 3.0130

SECTION ( 1 ) VERTICAL

Z/2V .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

100	.6573	.4345	.2753	.1831	.0434
125	.6701	.4433	.2751	.1690	-.6019
150	.6829	.4521	.2749	.1545	-.5918
175	.6957	.4609	.2747	.1400	-.5817
200	.7085	.4697	.2745	.1255	-.5716
225	.7213	.4785	.2743	.1110	-.5615
250	.7341	.4873	.2741	.0965	-.5514
275	.7469	.4961	.2739	.0820	-.5413
300	.7597	.5049	.2737	.0675	-.5312
325	.7725	.5137	.2735	.0530	-.5211
350	.7853	.5225	.2733	.0385	-.5110
375	.7981	.5313	.2731	.0240	-.5009
400	.8109	.5401	.2729	.0095	-.4908
425	.8237	.5489	.2727	-.0050	-.4807
450	.8365	.5577	.2725	-.0195	-.4706
475	.8493	.5665	.2723	-.0340	-.4605
500	.8621	.5753	.2721	-.0485	-.4504
525	.8749	.5841	.2719	-.0630	-.4403
550	.8877	.5929	.2717	-.0775	-.4302
575	.9005	.6017	.2715	-.0920	-.4201
600	.9133	.6105	.2713	-.1065	-.4100
625	.9261	.6193	.2711	-.1210	-.4000
650	.9389	.6281	.2709	-.1355	-.3899
675	.9517	.6369	.2707	-.1500	-.3798
700	.9645	.6457	.2705	-.1645	-.3697
725	.9773	.6545	.2703	-.1790	-.3596
750	.9901	.6633	.2701	-.1935	-.3495
775	.1000	.6721	.2699	-.2080	-.3394
800	.1000	.6809	.2697	-.2225	-.3293
825	.1000	.6897	.2695	-.2370	-.3192
850	.1000	.6985	.2693	-.2515	-.3091
875	.1000	.7073	.2691	-.2660	-.2990
900	.1000	.7161	.2689	-.2805	-.2889
925	.1000	.7249	.2687	-.2950	-.2788
950	.1000	.7337	.2685	-.3095	-.2687
975	.1000	.7425	.2683	-.3240	-.2586
1000	.1000	.7513	.2681	-.3385	-.2485

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV73) ( 13 AUG 75 )

REFERENCE DATA

SEEF = 2930.000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 PREP = 935.0630 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

PARAMETRIC DATA

RUDDER = -5.000 SPDRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = 1.100

ALPHA ( 1 ) = -3.958 BETA ( 1 ) = -3.850 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6955	.5588		.5426		.6551	.6270
.025	.5460	.4083		.4397		.5067	.4477
.050	.5373	.4128		.4187		.4924	.4491
.100	.4112	.3304		.3686		.4292	.3859
.150	.2740	.2421		.3515		.3921	.3265
.200	.1045	.1164		.4513		.4437	.1167
.250	.1462	.2331	-.1169	.4192	.3850	.3591	-.3932
.300	.1247	.2157	.3017	.3246	.3187	.1729	-.4079
.350	.1247	.3088	.1905	.2112	.1827	-.0435	-.4272

ALPHA ( 2 ) = -3.953 BETA ( 2 ) = .190 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV	.1580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.7546	.6222		.6579		.6498	.5394
.025	.2534	-.0162		-.0889		-.0763	-.1453
.050	.3810	.2017		.1315		.0703	-.0489
.100	.2874	.1261		.1806		.2447	.2446
.150	.1233	.0725		.2230		.2928	.2510
.200	-.0285	-.0090		.3291		.3315	.1109
.250	-.4765	.1535	-.1106	.3750	.3486	.3318	-.4219
.300	-.2529	.1523	.2635	.2795	.2773	.1478	-.4081
.350		.0603	.1528	.1711	.1501	-.0675	-.4052

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 1 ) = -3.950 BETA ( 3 ) = 4.266 MACH = 1.1008 Q = 500.53 P = 707.91 RN/L = 3.1821  
 (XEBV73)

## SECTION 1 ( VERTICAL )

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X COV

.000 .5741 .5-59 .5117 .2881 .1770  
 .025 .0258 .3351 .4789 .5186 .3781  
 .050 .0971 .2658 .4895 .5098 .3659  
 .150 .1133 .0505 .3239 .5405 .3229  
 .200 .0280 .0591 .1760 .4150 .3581  
 .300 .1159 .1134 .1026 .0477 .3374  
 .400 .0345 .0391 .1598 .2915 .3035  
 .500 .0710 .0571 .1257 .2243 .2805  
 .600 .0403 .0393 .0715 .1095 .0280  
 .700 .0000 .0000 .0000 .0000 .0000 .0000

ALPHA ( 2 ) = .047 BETA ( 1 ) = -3.869 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830

## SECTION 2 ( VERTICAL )

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X COV

.000 .5741 .5-59 .5117 .2881 .1770  
 .025 .0258 .3351 .4789 .5186 .3781  
 .050 .0971 .2658 .4895 .5098 .3659  
 .150 .1133 .0505 .3239 .5405 .3229  
 .200 .0280 .0591 .1760 .4150 .3581  
 .300 .1159 .1134 .1026 .0477 .3374  
 .400 .0345 .0391 .1598 .2915 .3035  
 .500 .0710 .0571 .1257 .2243 .2805  
 .600 .0403 .0393 .0715 .1095 .0280  
 .700 .0000 .0000 .0000 .0000 .0000 .0000

ALPHA ( 2 ) = .052 BETA ( 2 ) = .177 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830

## SECTION 3 ( VERTICAL )

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 X COV

.000 .5741 .5-59 .5117 .2881 .1770  
 .025 .0258 .3351 .4789 .5186 .3781  
 .050 .0971 .2658 .4895 .5098 .3659  
 .150 .1133 .0505 .3239 .5405 .3229  
 .200 .0280 .0591 .1760 .4150 .3581  
 .300 .1159 .1134 .1026 .0477 .3374  
 .400 .0345 .0391 .1598 .2915 .3035  
 .500 .0710 .0571 .1257 .2243 .2805  
 .600 .0403 .0393 .0715 .1095 .0280  
 .700 .0000 .0000 .0000 .0000 .0000 .0000

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ALPHA ( 2 ) = .046 BETA ( 3 ) = 4.245 MACH = 1.1000 Q = 599.94 P = 708.37 RN/L = 3.1830  
(XEBV73)

SECTION 11-073 (0A148) - 14CA/B/C ORB VERTICAL

DEPENDENT VARIABLE CP

Z-BV	.580	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6342	.4956		.4554	.2337	.0876	
.025	-.0531	-.3554		-.5409	-.6176	-.4619	
.050	.0394	-.3251		-.5464	-.6133	-.4539	
.075	.0727	-.1257		-.2533	-.6014	-.4143	
.100	-.0196	-.1204		-.2169	-.3964	-.4172	
.125	-.1339	-.2146		.0560	.1513	-.2872	
.150	-.5344	-.0251	-.1011	.1122	.1387	.3007	-.2977
.175	-.1427	-.1423	.0124	.0820	.1306	.1549	-.3191
.200		-.1252	-.0357	.0279	.0348	-.0657	-.3864

ALPHA ( 3 ) = -.012 BETA ( 1 ) = -3.872 MACH = 1.0998 Q = 599.99 P = 708.60 RN/L = 3.1803

SECTION 11-073 (0A148) - 14CA/B/C ORB VERTICAL

DEPENDENT VARIABLE CP

Z-BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6095	.4391		.3921	.4501	.4454	
.025	.3992	.2242		.1989	.3940	.3729	
.050	.3203	.2421		.1933	.3704	.3591	
.075	.2637	.1174		.1655	.3235	.2990	
.100	.1146	.0654		.2039	.3098	.2459	
.125	-.0134	-.0672		.3478	.3354	.0435	
.150	-.5821	.1366	-.1146	.3234	.3082	-.3835	
.175	-.2936	.1268	.2250	.2436	.2469	-.3952	
.200		.0387	.1214	.1526	.1224	-.0785	-.4741

ALPHA ( 3 ) = -.014 BETA ( 2 ) = .182 MACH = 1.0998 Q = 599.99 P = 708.60 RN/L = 3.1803

SECTION 11-073 (0A148) - 14CA/B/C ORB VERTICAL

DEPENDENT VARIABLE CP

Z-BV	.1590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV							
.000	.6930	.5059		.4545	.4574	.3506	
.025	.1142	-.0923		-.2036	-.2941	-.1707	
.050	.3203	.1150		-.0820	-.1967	-.1082	
.075	.2637	.0814		-.0261	.1603	.1641	
.100	.1146	.0672		-.0429	.2231	.1979	
.125	-.0134	-.0672		.2615	.3345	.0431	
.150	-.5821	.1366	-.1051	.3046	.2884	.2763	-.4136
.175	-.2936	.1268	.1817	.2750	.2272	.0950	-.4316
.200		.0387	.1191	.1317	.1060	-.1008	-.4580

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7045

AMES 11-07310A148) -140A/B/C ORB VERTICAL (XEBV73)

ALPHA = 3 = 4.056 BETA ( 3 ) = 4.239 MACH = 1.0398 Q = 599.99 P = 708.60 RN/L = 3.1803

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1.050	1.170	1.490	1.620	1.6970	1.8300	1.9250
5957	.4355	.3575	.1607	-.0019			
5958	.3752	-.7126	-.5405				
5959	.3711	-.6955	-.5359				
5960	.3637	-.6802	-.5332	-.4907			
5961	.3593	-.6755	-.5326	-.4690			
5962	.3549	-.6703	.0332	.1828	-.2398		
5963	.3500	-.6650	-.1057	.0859	-.3092		
5964	.3456	-.6600	-.1228	.0716	-.3873		
5965	.3413	-.6553	-.1376	-.0142	-.4145	-.4605	

ALPHA = 3 = 4.056 BETA ( 1 ) = -3.859 MACH = 1.1000 Q = 599.94 P = 708.35 RN/L = 3.1794

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1.050	1.170	1.490	1.620	1.6970	1.8300	1.9250
5957	.3849	.3044	.1301	.3391			
5958	.3255	.1297	.7189	.3255			
5959	.3253	.1293	.5123	.3065			
5960	.3250	.1290	.2927	.2525			
5961	.3247	.1287	.1116	.2682	.2080		
5962	.3244	.1284	.3022	.2920	.0128		
5963	.3241	.1281	.2792	.2703	-.3927		
5964	.3238	.1278	.2536	.2201	.1001	-.4165	
5965	.3235	.1275	.1036	.0971	-.0983	-.4879	

ALPHA = 3 = 4.056 BETA ( 2 ) = .174 MACH = 1.1000 Q = 599.94 P = 708.35 RN/L = 3.1794

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1.050	1.170	1.490	1.620	1.6970	1.8300	1.9250
5957	.3578	.2408	.3578	.2408			
5958	.3322	-.1661	-.3322	-.1661			
5959	.3193	-.1758	-.3193	-.1758			
5960	.3079	.1252	-.3079	.1252			
5961	.2932	.1705	-.2932	.1705			
5962	.2833	.0119	-.2833	.0119			
5963	.2594	-.4079	-.2594	-.4079			
5964	.2001	-.4263	-.2001	-.4263			
5965	.0929	-.4911	-.0929	-.4911			



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TABULATED PRESSURE DATA - 0014P ( AMES 11-073-1 )

PAGE 7047

ALPHA ( 4 ) = 7.964 BETA ( 3 ) = 4.233 MACH = 1.1000 Q = 599.94 P = 708.35 RN/L = 3.1794  
(XE9V73)

ORB VERTICAL

SECTION ( 1 ) VERTICAL

DEPEN VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6037 .3857 .2719 .0893  
.025 .0465 .3811 .6252 .6279  
.050 .0552 .3244 .6407 .6279  
.100 .0676 .1922 .3281 .5887  
.200 .1212 .2277 .2883 .5065  
.300 .3075 .3285 .0350 .1105  
.400 .5202 .2351 .1112 .0226 .0130 .3856  
.500 .4395 .2737 .1117 .0276 .0059 .4478  
.600 .1539 .1489 .0726 .0719 .1450 .4866

ALPHA ( 5 ) = 12.057 BETA ( 1 ) = -3.848 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6476 .3649 .2275 .2166 .2441  
.025 .2638 .1239 .0751 .2394 .2942  
.050 .2881 .1352 .0737 .2328 .2718  
.100 .1518 .0312 .0131 .2223 .2155  
.200 .0366 .0500 .0083 .2330 .1797  
.300 .1450 .1292 .2566 .3069 .0161  
.400 .6322 .0223 .1605 .2538 .2412 .4043  
.500 .4460 .0617 .1197 .2180 .2080 .4415  
.600 .0758 .0928 .1293 .0878 .1092 .5259

ALPHA ( 5 ) = 12.077 BETA ( 2 ) = .180 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6371 .3947 .2925 .2770 .1367  
.025 .1102 .1763 .2957 .3572 .4475  
.050 .2463 .0219 .2957 .2283 .3784  
.100 .1353 .0797 .1477 .1207 .0071  
.200 .0721 .1655 .1787 .0576 .1050  
.300 .2499 .2486 .0383 .2300 .0194  
.400 .5904 .1439 .0815 .2005 .4104  
.500 .4597 .2040 .0381 .1284 .0574 .4332  
.600 .1544 .0804 .0448 .0499 .1245 .4931

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 7048

ALPHA ( 5 ) = 12.075 BETA ( 3 ) = 4.245 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785  
(XE8V73)

SECTION ( 1 ) VERTICAL  
Z/BV .1590 .3170 .4590 .5020 .6970 .8390 .9251  
DEPENDENT VARIABLE CP  
X/CV  
.000 .6344 .3572 .2029 .0052 .1702  
.025 .0053 .3953 .6222 .7529 .6467  
.050 .0972 .3351 .6455 .7665 .6541  
.100 .0673 .2072 .3995 .5767 .6219  
.150 .1457 .2875 .3160 .4529 .5929  
.200 .3231 .3533 .6802 .1000 .1317  
.250 .1400 .0265 .0305 .1108 .4222  
.300 .1724 .0919 .0509 .0127 .4679  
.350 .2018 .1321 .1033 .1774 .4874

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7049

(XE8V74) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## REFERENCE DATA

SECF = 2520.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.0000 IN. YMRP = .0000 IN. YO  
 PREP = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

## PARAMETRIC DATA

RUDDER = -5.000 SPDBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .900

ALPHA ( 1 ) = -3.993 BETA ( 1 ) = -3.854 MACH = .90080 Q = 500.60 P = 1057.3 RN/L = 3.5738

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.0000 .5017 .3636 .4484 .5552 .5068  
 .0250 .4043 .2954 .3608 .3340 .2444  
 .0500 .2933 .2830 .3367 .3243 .2664  
 .0750 .2507 .1888 .2657 .2581 .2048  
 .1000 .1216 .0989 .2354 .2200 .1341  
 .1250 .1028 .0495 .3044 .2560 .0585  
 .1500 .0288 .1593 .2534 .1634 .3474  
 .1750 .0213 .0763 .1570 .1201 .3026  
 .2000 .0213 .0094 .0169 .0149 .3090

ALPHA ( 2 ) = -3.915 BETA ( 2 ) = .189 MACH = .90080 Q = 600.60 P = 1057.3 RN/L = 3.5738

## SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.0000 .5921 .5025 .5774 .5053 .3909  
 .0250 .0776 .11952 .2628 .2236 .3906  
 .0500 .2035 .0515 .0278 .0692 .2303  
 .0750 .1037 .0024 .0562 .0655 .0512  
 .1000 .0130 .0474 .0994 .1055 .0465  
 .1250 .2025 .0481 .2672 .1825 .0842  
 .1500 .2836 .1014 .1942 .1085 .3614  
 .1750 .0273 .0207 .0854 .0681 .3244  
 .2000 .0273 .0042 .0535 .0284 .3353

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C ORB VERTICAL (XEBV74)

ALPHA ( 1 ) = -3.96; BETA ( 3 ) = 4.265 MACH = .90080 Q = 600.60 P = 1057.3 RN/L = 3.5738

SECTION 1: VERTICAL

Z ( ft ) : .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

.000	.4650	.3492	.3142	.1171	.0574
.025	-.1982	-.6591	-.6217	-.5078	-.4054
.050	-.1080	-.5935	-.6449	-.4374	-.3845
.075	-.1283	-.3045	-.5892	-.5024	-.3494
.100	-.2022	-.2321	-.2132	-.4220	-.3674
.125	-.3107	-.1450	.0624	-.0942	-.4016
.150	-.3453	-.0376	.0811	.0216	-.3802
.175	-.2243	-.0245	.0309	.0275	-.3788
.200	-.1255	-.1125	-.0857	-.1191	-.3620

ALPHA ( 2 ) = .055 BETA ( 1 ) = -3.869 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION 2: VERTICAL

Z ( ft ) : .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

.000	.4265	.2782	.3774	.4819	.4758
.025	.3344	.2231	.3249	.3017	.2287
.050	.3151	.2340	.3011	.2983	.2377
.075	.1874	.3402	.2340	.2335	.1729
.100	.1735	.3481	.1991	.1917	.1012
.125	-.1451	.3309	.2720	.2269	-.0895
.150	-.2658	.1433	.2269	.1713	.1308
.175	-.2188	.0772	.1177	.0904	-.0753
.200	-.0155	-.0312	-.0352	-.0853	-.2208

ALPHA ( 2 ) = .084 BETA ( 2 ) = .180 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION 3: VERTICAL

Z ( ft ) : .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

.000	.5123	.4104	.5120	.4441	.3111
.025	.3266	.3303	-.6924	-.2294	-.3873
.050	.3410	.3049	-.0081	-.1089	-.2296
.075	.1709	.3072	.0256	.0382	.0244
.100	.1776	.3974	.0520	.0758	.0194
.125	-.2362	.3498	.1955	.1677	-.1125
.150	-.2333	.3025	.1634	.0970	-.3624
.175	-.3212	.3741	.0732	.0411	-.1150
.200	-.1174	-.1174	-.0553	-.1237	-.3256

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .055 BETA ( 3 ) = 4.248 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726  
 (XEBV74)

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000 .4320 .2755 .2345 .0253 -.0549  
 .025 -.2791 -.6930 -.6946 -.5307 -.4421  
 .050 -.1702 -.6417 -.6884 -.5189 -.4222  
 .150 -.1773 -.3533 -.3739 -.5291 -.3769  
 .300 -.2508 -.2619 -.2261 -.4439 -.4042  
 .500 -.1357 .0054 -.0326 -.3904  
 .695 -.2864 .0282 -.1430 .0386 -.3562  
 .775 -.12363 .0452 .0127 -.0077 -.0611 -.3543  
 .900 -.1231 -.1059 -.1208 -.1676 -.1759 -.3335

ALPHA ( 3 ) = 4.001 BETA ( 1 ) = -3.875 MACH = .90140 Q = 601.01 P = 1056.6 RN/L = 3.5771

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000 .3831 .2335 .3052 .4176 .3662  
 .025 .2553 .1755 .3033 .2830 .2088  
 .050 .2513 .1762 .2730 .2690 .2116  
 .150 .1316 .0948 .2063 .2055 .1451  
 .300 .0154 .0111 .1806 .1675 .0723  
 .500 -.1690 .0168 .2454 .1842 -.1133  
 .695 -.2761 .1432 -.1406 .1973 .1449 .1111 -.2712  
 .775 -.2207 .0707 .1251 .0984 .0650 -.0993 -.2717  
 .900 -.0077 -.0110 -.0557 -.1065 -.2204 -.2884

ALPHA ( 3 ) = 4.079 BETA ( 2 ) = .183 MACH = .90140 Q = 601.01 P = 1056.6 RN/L = 3.5771

## SECTION 1 VERTICAL

Z/BV .1580 .3170 .4590 .5020 .6970 .8390 .9250

X/CV

.000 .5095 .3760 .4459 .3792 .2440  
 .025 -.0519 -.2740 .2692 -.2327 -.3864  
 .050 .0863 .0403 .0085 -.1256 -.2178  
 .150 -.0358 .0295 .0119 .0173 .0053  
 .300 .1239 .1202 .0439 .0513 .0051  
 .500 .2604 .0745 .1605 .1399 .1294  
 .695 .2901 .0762 .1387 .0950 .0567 .3260  
 .775 .2175 .0022 .0527 .0121 .1353 .3135  
 .900 .0139 .0731 .1075 .1499 .2657 .3315

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DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7052

ALPHA ( P ) = 4.001 BETA ( 3 ) = 4.242 MACH = .90140 Q = 601.01 P = 1056.6 RN/L = 3.5771  
 (XE8V74)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1500 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA

.3783	.2340	.1598	-.0227	-.1307
.2933	-.7540	-.6286	-.4516	-.4090
.1912	-.6987	-.6232	-.4478	-.3801
-.1785	-.3309	-.6324	-.4540	-.3419
-.7011	-.2190	-.3263	-.4303	-.3592
-.2453	-.1300	.0901	-.2099	-.3945
-.2008	-.0240	.0932	.0093	-.3303
-.1506	-.1471	.0037	.0131	-.3391
	-.1151	-.1246	-.1294	-.1879
				-.3383

ALPHA ( P ) = 7.033 BETA ( 1 ) = -3.872 MACH = .90130 Q = 600.85 P = 1056.6 RN/L = 3.5771

SECTION 2 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1500 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA

.5418	.1171	.2380	.3477	.2971
.6067	.1156	.2758	.2631	.1957
.6412	.1135	.2951	.2539	.1948
.6412	.0923	.1907	.1846	.1238
.6412	.0923	.1715	.1482	.0559
.6412	.0923	.2354	.1323	-.1241
.6412	.1471	.1938	.1238	.0877
.6412	.0748	.0867	.0471	-.2681
.6412	.0923	.0868	-.1215	-.2341
				-.2939

ALPHA ( P ) = 8.000 BETA ( 2 ) = .177 MACH = .90130 Q = 600.85 P = 1056.6 RN/L = 3.5771

SECTION 3 - VERTICAL

DEPENDENT VARIABLE CP

Z ( 2 ) .1500 .3170 .4590 .6020 .6970 .8390 .9250

ALPHA

.5418	.1171	.2380	.3477	.2971
.6067	.1156	.2758	.2631	.1957
.6412	.1135	.2951	.2539	.1948
.6412	.0923	.1907	.1846	.1238
.6412	.0923	.1715	.1482	.0559
.6412	.0923	.2354	.1323	-.1241
.6412	.1471	.1938	.1238	.0877
.6412	.0748	.0867	.0471	-.2681
.6412	.0923	.0868	-.1215	-.2341
				-.2939

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ALPHA ( 4 ) = 8.031 BETA ( 3 ) = 4.235 MACH = .90130 Q = 600.85 P = 1056.6 RN/L = 3.5771  
(XEBV74)

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z/87	1.590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3263	.1820	.0971	-.0971	-.0971	-.2069	
.000	-.2591	-.6927	-.6315	-.4518	-.4518	-.1123	
.025	-.1730	-.6438	-.6220	-.4404	-.4404	-.3860	
.050	-.1760	-.3837	-.6104	-.4584	-.4584	-.3390	
.100	-.2779	-.2945	-.3067	-.4492	-.4492	-.3760	
.150	-.2780	-.1424	.0784	-.1943	-.1943	-.4097	
.200	-.2814	-.0071	-.1379	.0636	.0182	-.3433	
.250	-.2846	-.0699	-.0191	-.0195	-.0077	-.3181	
.300		-.1460	-.1409	-.1447	-.1528	-.2081	-.3084

ALPHA ( 5 ) = 11.990 BETA ( 1 ) = -3.859 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 2: VERTICAL

DEPENDENT VARIABLE CP

Z/87	1.590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3264	.1493	.1725	.2773	.2773	.2266	
.000	.0244	.0208	.2519	.2562	.2562	.1908	
.025	.0793	.0499	.2213	.2410	.2410	.1799	
.050	.0341	.0241	.1721	.1751	.1751	.1050	
.100	.1535	-.0560	.1616	.1346	.1346	.0358	
.150	.2837	-.0103	.2223	.1183	.1183	-.1463	
.200	.2857	.1467	.1761	.0607	.0607	-.2689	
.250	.2847	.0899	.1254	.0422	.0422	-.2936	
.300		.0220	-.0072	-.1317	-.2551	-.2909	

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = .183 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 3: VERTICAL

DEPENDENT VARIABLE CP

Z/87	1.590	.3170	.4590	.6020	.6970	.8390	.9250
X/CV	.3903	.2453	.3619	.2873	.2873	.1553	
.000	-.0251	-.3049	-.2800	-.2435	-.2435	-.3660	
.025	-.0579	-.1559	-.0574	-.1115	-.1115	-.2083	
.050	-.0594	-.1653	-.0179	-.0038	-.0038	-.0309	
.100	-.1309	-.1665	.0181	.0226	.0226	-.0328	
.150	.2975	.0949	.1341	.1022	.1022	.1623	
.200	-.2549	.0544	.1079	.0598	.0598	-.2857	
.250	-.2203	-.0032	.0401	-.0112	-.0112	-.3037	
.300		-.0463	-.0346	-.1739	-.2745	-.3106	

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ABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV74)

ALPHA ( 5 ) = 12.054  
BETA ( 3 ) = 4.256 MACH = .90157 Q = 601.36 P = 1056.9 RN/L = 3.5829

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/B	.1500	.3170	.4590	.6220	.8390	.9250
X/CG						
.000	.3425	.1825	.0370	.1795	-.3072	
.005	.1200	-.6009	-.6711	-.4813	-.4370	
.010	.0470	-.6139	-.6728	-.4646	-.3969	
.015	.0129	-.3636	-.6076	-.4824	-.3722	
.020	.2933	-.3360	-.2672	-.4877	-.4090	
.025	.0191	-.1157	.0591	-.1814	-.4083	
.030	.0434	-.1139	.0329	-.0069	-.1050	-.3345
.035	.0544	-.0371	.0024	-.0363	-.1180	-.3212
.040	.0544	-.0371	.0170	-.1754	-.2111	-.2999



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(XEBV75) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

PARAMETRIC DATA

RUDDER = -5.000 SPD8RK = 55.000  
BDFLAP = 16.300 L-ELVN = -10.000  
R-ELVN = -10.000 MACH = .630

RN/L = 4.8576

P = 2386.4

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

Q = 594.32

DEPENDENT VARIABLE CP

SECTION 1 VERTICAL

Z/B	1.600	3.170	4.590	6.020	6.970	8.390	9.250
1.00	.0332	-.1893	-.0498	.1184	.0676	.1184	.0676
1.01	.0317	-.1791	-.0457	.1157	.0653	.1157	.0653
1.02	.0302	-.1689	-.0415	.1130	.0630	.1130	.0630
1.03	.0287	-.1587	-.0374	.1103	.0607	.1103	.0607
1.04	.0272	-.1485	-.0333	.1076	.0584	.1076	.0584
1.05	.0257	-.1383	-.0292	.1049	.0561	.1049	.0561
1.06	.0242	-.1281	-.0251	.1022	.0538	.1022	.0538
1.07	.0227	-.1179	-.0210	.0995	.0515	.0995	.0515
1.08	.0212	-.1077	-.0169	.0968	.0492	.0968	.0492
1.09	.0197	-.0975	-.0128	.0941	.0469	.0941	.0469
1.10	.0182	-.0873	-.0087	.0914	.0446	.0914	.0446
1.11	.0167	-.0771	-.0046	.0887	.0423	.0887	.0423
1.12	.0152	-.0669	-.0005	.0860	.0400	.0860	.0400
1.13	.0137	-.0567	.0036	.0833	.0377	.0833	.0377
1.14	.0122	-.0465	.0077	.0806	.0354	.0806	.0354
1.15	.0107	-.0363	.0118	.0779	.0331	.0779	.0331
1.16	.0092	-.0261	.0159	.0752	.0308	.0752	.0308
1.17	.0077	-.0159	.0200	.0725	.0285	.0725	.0285
1.18	.0062	-.0057	.0241	.0698	.0262	.0698	.0262
1.19	.0047	.0045	.0282	.0671	.0239	.0671	.0239
1.20	.0032	.0143	.0323	.0644	.0216	.0644	.0216

Z/B	1.600	3.170	4.590	6.020	6.970	8.390	9.250
1.00	.0332	-.1893	-.0498	.1184	.0676	.1184	.0676
1.01	.0317	-.1791	-.0457	.1157	.0653	.1157	.0653
1.02	.0302	-.1689	-.0415	.1130	.0630	.1130	.0630
1.03	.0287	-.1587	-.0374	.1103	.0607	.1103	.0607
1.04	.0272	-.1485	-.0333	.1076	.0584	.1076	.0584
1.05	.0257	-.1383	-.0292	.1049	.0561	.1049	.0561
1.06	.0242	-.1281	-.0251	.1022	.0538	.1022	.0538
1.07	.0227	-.1179	-.0210	.0995	.0515	.0995	.0515
1.08	.0212	-.1077	-.0169	.0968	.0492	.0968	.0492
1.09	.0197	-.0975	-.0128	.0941	.0469	.0941	.0469
1.10	.0182	-.0873	-.0087	.0914	.0446	.0914	.0446
1.11	.0167	-.0771	-.0046	.0887	.0423	.0887	.0423
1.12	.0152	-.0669	-.0005	.0860	.0400	.0860	.0400
1.13	.0137	-.0567	.0036	.0833	.0377	.0833	.0377
1.14	.0122	-.0465	.0077	.0806	.0354	.0806	.0354
1.15	.0107	-.0363	.0118	.0779	.0331	.0779	.0331
1.16	.0092	-.0261	.0159	.0752	.0308	.0752	.0308
1.17	.0077	-.0159	.0200	.0725	.0285	.0725	.0285
1.18	.0062	-.0057	.0241	.0698	.0262	.0698	.0262
1.19	.0047	.0045	.0282	.0671	.0239	.0671	.0239
1.20	.0032	.0143	.0323	.0644	.0216	.0644	.0216

DEPENDENT VARIABLE CP

SECTION 2 VERTICAL

Z/B	1.600	3.170	4.590	6.020	6.970	8.390	9.250
1.00	.0332	-.1893	-.0498	.1184	.0676	.1184	.0676
1.01	.0317	-.1791	-.0457	.1157	.0653	.1157	.0653
1.02	.0302	-.1689	-.0415	.1130	.0630	.1130	.0630
1.03	.0287	-.1587	-.0374	.1103	.0607	.1103	.0607
1.04	.0272	-.1485	-.0333	.1076	.0584	.1076	.0584
1.05	.0257	-.1383	-.0292	.1049	.0561	.1049	.0561
1.06	.0242	-.1281	-.0251	.1022	.0538	.1022	.0538
1.07	.0227	-.1179	-.0210	.0995	.0515	.0995	.0515
1.08	.0212	-.1077	-.0169	.0968	.0492	.0968	.0492
1.09	.0197	-.0975	-.0128	.0941	.0469	.0941	.0469
1.10	.0182	-.0873	-.0087	.0914	.0446	.0914	.0446
1.11	.0167	-.0771	-.0046	.0887	.0423	.0887	.0423
1.12	.0152	-.0669	-.0005	.0860	.0400	.0860	.0400
1.13	.0137	-.0567	.0036	.0833	.0377	.0833	.0377
1.14	.0122	-.0465	.0077	.0806	.0354	.0806	.0354
1.15	.0107	-.0363	.0118	.0779	.0331	.0779	.0331
1.16	.0092	-.0261	.0159	.0752	.0308	.0752	.0308
1.17	.0077	-.0159	.0200	.0725	.0285	.0725	.0285
1.18	.0062	-.0057	.0241	.0698	.0262	.0698	.0262
1.19	.0047	.0045	.0282	.0671	.0239	.0671	.0239
1.20	.0032	.0143	.0323	.0644	.0216	.0644	.0216

Z/B	1.600	3.170	4.590	6.020	6.970	8.390	9.250
1.00	.0332	-.1893	-.0498	.1184	.0676	.1184	.0676
1.01	.0317	-.1791	-.0457	.1157	.0653	.1157	.0653
1.02	.0302	-.1689	-.0415	.1130	.0630	.1130	.0630
1.03	.0287	-.1587	-.0374	.1103	.0607	.1103	.0607
1.04	.0272	-.1485	-.0333	.1076	.0584	.1076	.0584
1.05	.0257	-.1383	-.0292	.1049	.0561	.1049	.0561
1.06	.0242	-.1281	-.0251	.1022	.0538	.1022	.0538
1.07	.0227	-.1179	-.0210	.0995	.0515	.0995	.0515
1.08	.0212	-.1077	-.0169	.0968	.0492	.0968	.0492
1.09	.0197	-.0975	-.0128	.0941	.0469	.0941	.0469
1.10	.0182	-.0873	-.0087	.0914	.0446	.0914	.0446
1.11	.0167	-.0771	-.0046	.0887	.0423	.0887	.0423
1.12	.0152	-.0669	-.0005	.0860	.0400	.0860	.0400
1.13	.0137	-.0567	.0036	.0833	.0377	.0833	.0377
1.14	.0122	-.0465	.0077	.0806	.0354	.0806	.0354
1.15	.0107	-.0363	.0118	.0779	.0331	.0779	.0331
1.16	.0092	-.0261	.0159	.0752	.0308	.0752	.0308
1.17	.0077	-.0159	.0200	.0725	.0285	.0725	.0285
1.18	.0062	-.0057	.0241	.0698	.0262	.0698	.0262
1.19	.0047	.0045	.0282	.0671	.0239	.0671	.0239
1.20	.0032	.0143	.0323	.0644	.0216	.0644	.0216



AXES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV75)

AXES 11-073(0A148) -140A/B/C ORB VERTICAL  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP

AXES 11-073(0A148) -140A/B/C ORB VERTICAL  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

DEPENDENT VARIABLE CP  
 Q = 593.85 P = 2386.3 RN/L = 4.8579

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TABLED PRESSURE DATA - CA148 ( AMES 11-073-1 )

(XEBVTS)

AMES 11-073:CA148: -14CA/B/C ORB VERTICAL

P = 2385.3 FV L = 4.5579

Q = 593.85

MACH = .59524

SETA ( 5 ) = 4.2-7

SETA ( 4 ) = 4.2-7

DEPENDENT VARIABLE CP

SETA ( 5 ) = 4.2-7 MACH = .59524 Q = 593.85

SETA ( 4 ) = 4.2-7 MACH = .59524 Q = 593.85

SETA ( 5 ) = 4.2-7 MACH = .59524 Q = 593.85

DEPENDENT VARIABLE CP

SETA ( 4 ) = 4.2-7 MACH = .59524 Q = 593.85

SETA ( 5 ) = 4.2-7 MACH = .59524 Q = 593.85

SETA ( 4 ) = 4.2-7 MACH = .59524 Q = 593.85

DEPENDENT VARIABLE CP

SETA ( 5 ) = 4.2-7 MACH = .59524 Q = 593.85

SETA ( 4 ) = 4.2-7 MACH = .59524 Q = 593.85



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 4.017 BETA ( 5 ) = 8.238 MACH = .59540 Q = 594.21 P = 2386.5 RN/L = 4.8659  
 (XEBV75)

## SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6020 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 -.1579 -.6096 -.6605 -.6043 -.5106  
 .025 -.9514 -1.0593 -.8646 -.6054 -.4547  
 .050 -.6729 -.3367 -.3459 -.6059 -.4397  
 .100 -.6360 -1.0156 -.9303 -.6167 -.3921  
 .150 -.3792 -.4376 -.7355 -.5995 -.3545  
 .200 -.3962 -.2199 -.4537 -.4615 -.2975  
 .250 -.3014 -.1195 -.2796 -.3885 -.3908  
 .300 -.2593 -.1263 -.1848 -.2093 -.2902  
 .350 -.2759 -.2759 -.3476 -.3147 -.3460  
 .400 -.2759 -.2759 -.3147 -.2648

ALPHA ( 4 ) = 7.959 BETA ( 1 ) = -7.893 MACH = .59626  
 SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 -.1170 -.4299 -.3832 -.0578 -.0785  
 .025 -.3724 -.2553 -.3239 -.3489 -.2936  
 .050 -.3291 -.2254 -.3515 -.3237 -.2659  
 .100 -.1942 -.1354 -.2596 -.2371 -.1640  
 .150 -.0779 -.0550 -.2039 -.1681 -.0803  
 .200 -.1507 -.0921 -.1574 -.1593 -.0453  
 .250 -.6437 -.1226 -.1283 -.0933 -.0915  
 .300 -.2231 -.0588 -.0209 -.0263 -.1481  
 .350 -.1112 -.1582 -.1427 -.1215 -.0672  
 .400 -.1582 -.1582 -.1427 -.1215 -.0672

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = -3.863 MACH = .59626  
 SECTION ( 1 ) VERTICAL

Z/8V .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV

.000 -.2438 -.1039 -.1512 -.2600 -.2099  
 .025 -.1382 -.1585 -.2375 -.2099 -.1505  
 .050 -.1706 -.1457 -.2043 -.1899 -.1446  
 .100 -.2536 -.0624 -.1437 -.1189 -.0724  
 .150 -.0134 -.0102 -.1055 -.0892 -.0188  
 .200 -.2000 -.0274 -.1349 -.1243 -.0787  
 .250 -.2520 -.0804 -.0472 -.0547 -.1452  
 .300 -.2173 -.0380 -.0105 -.0252 -.1711  
 .350 -.1375 -.1935 -.1910 -.1653 -.1074  
 .400 -.1375 -.1935 -.1910 -.1653 -.1074

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.077 BETA ( 3 ) = .178 MACH = .59626 0 = 593.97 P = 2386.7 RN/L = 4.8657  
 SECTION ( 1 ) VERTICAL (XE8V75)

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 M/CV  
 .000 .4077 .3278 .2586 .2605 .1473  
 .025 -.0749 -.3160 -.3066 -.2385 -.4279  
 .050 .0162 -.0767 -.0670 -.1086 -.1708  
 .100 -.0477 -.0947 -.0299 -.0455 -.0579  
 .200 -.1372 -.1179 -.0131 -.0201 -.0579  
 .300 -.2772 -.0489 .0639 .0583 -.1114  
 .400 -.2678 .0200 -.1550 .0157 -.0142  
 .500 -.2105 .0448 .0699 -.1020 -.0914  
 .600 -.1845 -.2475 -.2550 -.2315 -.1619  
 .700 .000 .000 .000 .000 .000  
 .800 .000 .000 .000 .000 .000  
 .900 .000 .000 .000 .000 .000

ALPHA ( 4 ) = 8.079 BETA ( 4 ) = 4.235 MACH = .59626 0 = 593.97 P = 2386.7 RN/L = 4.8657  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 M/CV

.000 .2279 .0406 .0858 .3302 .3721  
 .025 .3644 .0523 .7210 .5458 .7146  
 .050 .3297 .0519 .6875 .5249 .5934  
 .100 .2517 .0370 .3045 .5854 .5894  
 .200 .1323 .0249 .2699 .1993 .1191  
 .300 .0435 .0162 .0579 .0125 .1717  
 .400 .2537 .0435 .1675 .1131 .2204  
 .500 .2325 .0935 .1279 .1322 .1642  
 .600 .0209 .2834 .2894 .2864 .2314  
 .700 .000 .000 .000 .000 .000  
 .800 .000 .000 .000 .000 .000  
 .900 .000 .000 .000 .000 .000

ALPHA ( 4 ) = 8.076 BETA ( 5 ) = 8.290 MACH = .59626 0 = 593.97 P = 2386.7 RN/L = 4.8657  
 SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 M/CV

.000 .1390 .1851 .7176 .6394 .5912  
 .025 .6710 .1320 .1923 .5927 .4257  
 .050 .6394 .1920 .9341 .5915 .4203  
 .100 .6395 .1317 .8790 .6235 .3937  
 .200 .3814 .0413 .7759 .6224 .3719  
 .300 .2973 .0305 .4065 .4893 .3298  
 .400 .2730 .0477 .1793 .4171 .3004  
 .500 .2430 .1979 .1191 .3085 .2884  
 .600 .2130 .1879 .2202 .2809 .2783  
 .700 .000 .000 .000 .000 .000  
 .800 .000 .000 .000 .000 .000  
 .900 .000 .000 .000 .000 .000

DATE 14 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7062

ALPHA ( 5 ) = 11.984 BETA ( 1 ) = -7.850 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671  
 AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XE8V75)

SECTION ( INVERTICAL  
 Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .020 -.1485 -.5198 -.4363 -.1569 -.1440  
 .025 .2892 .3070 .3535 .3115 .2517  
 .050 .2433 .2784 .2766 .2955 .2360  
 .150 .1106 .1653 .2447 .2110 .1355  
 .300 .0245 .0391 .1907 .1507 .0631  
 .500 -.1402 .1116 .1794 .1427 -.0642  
 .695 -.2478 .1427 -.1602 .0802 .0657 -.1473  
 .775 -.2733 .0429 .0484 .0197 -.0401 -.1478  
 .900 -.2753 -.1505 -.1527 -.1235 -.0886 -.1588

ALPHA ( 5 ) = 12.003 BETA ( 2 ) = -3.840 MACH = .59536 Q = 594.09 P = 2386.3 RN/L = 4.8671

SECTION ( INVERTICAL  
 Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .020 .2786 .2712 .1008 .2001 .1290  
 .025 .1820 .1537 .1247 .1897 .1380  
 .050 .1721 .1370 .1928 .1708 .1201  
 .150 .0416 .0513 .1290 .1053 .0532  
 .300 .0559 .0111 .1053 .0734 .0031  
 .500 -.2310 .0328 .1247 .1020 .1037  
 .695 -.2531 .0931 .1522 .0268 .0338 .1736  
 .775 .1201 .0321 .0039 .0311 .0401 .1967  
 .900 .1206 .1106 .1840 .1874 .1232 .1960

ALPHA ( 5 ) = 12.008 BETA ( 3 ) = .180 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

SECTION ( INVERTICAL  
 Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

X/CV  
 .020 .3916 .2329 .3216 .2165 .1122  
 .025 .0512 .1356 .2670 .2338 .4059  
 .050 .0328 .1508 .0521 .0939 .1460  
 .150 .0626 .1064 .0336 .0553 .0662  
 .300 .1145 .1292 .0759 .0244 .0531  
 .500 .2828 .0432 .0517 .0430 .1116  
 .695 .2523 .0356 .0053 .0032 .1875  
 .775 .2121 .0353 .0662 .0947 .1100 .1979  
 .900 .1106 .1106 .2615 .2416 .1460 .1925



DATE 14 FEB 75

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 7063

ALPHA ( 5 ) = 12.057 BETA ( 4 ) = 4.244 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671  
 (XEBV75)

## SECTION 1 : VERTICAL

Z/8V .1560 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .2516 .1228 .1366 .3867 .4247  
 .005 .3440 .1326 .7121 .5688 .6185  
 .050 .3101 .1526 .1510 .5596 .5388  
 .100 .2501 .1522 .3169 .6268 .5430  
 .150 .2597 .1260 .2869 .1293 .1684  
 .200 .3335 .1174 .10432 .0001 .1650  
 .250 .1242 .1009 .1187 .0379 .2365  
 .300 .1231 .1091 .1715 .1366 .2269  
 .350 .1231 .1091 .2979 .2764 .1902 .2192

## SECTION 2 : VERTICAL

ALPHA ( 5 ) = 12.114 BETA ( 5 ) = 8.307 MACH = .59536 Q = 594.09 P = 2386.3 RN/L = 4.8671

## SECTION 1 : VERTICAL

Z/8V .1560 .3170 .4590 .6020 .6970 .8390 .9250  
 X/CV  
 .000 .2187 .1698 .18050 .6911 .6535  
 .005 .7593 .11223 .8284 .5873 .4222  
 .050 .7555 .12910 .9412 .5989 .4163  
 .100 .8000 .11935 .8720 .6397 .4369  
 .150 .7409 .12616 .8774 .6326 .3932  
 .200 .7456 .12478 .3659 .5055 .3582  
 .250 .7313 .11428 .1782 .4866 .4390 .3109  
 .300 .7331 .11310 .2046 .3004 .3932 .3055  
 .350 .7299 .12099 .3445 .2457 .3208 .3128

DATE 14 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV76) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## REFERENCE DATA

SREF = 2690.0000 CO.FT. XMRP = 1076.6800 IN. XO  
 LREF = 47.6000 IN. YMRP = .0000 IN. YO  
 BREF = 336.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.400

ALPHA ( 1 ) = -.004 BETA ( 1 ) = -3.853 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

## SECTION ( 1 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .7891 .5710 .6493 .6552 .6396  
 .025 .6144 .5168 .4653 .4737 .4652  
 .050 .5330 .4191 .4526 .4654 .4640  
 .075 .5287 .4203 .4509 .4012 .3875  
 .100 .3845 .4275 .3301 .3753 .2924  
 .125 .2165 .2023 .3725 .2211 .1498  
 .150 .2253 .5346 .1455 .5262 .5316  
 .175 .3208 .5018 .5251 .5269 .5266  
 .200 .4429 .5182 .5022 .5185 .4921 .4104

ALPHA ( 2 ) = -.001 BETA ( 2 ) = .191 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

## SECTION ( 2 ) VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

## X/CV

.000 .9419 .7427 .7097 .6608 .5850  
 .025 .2791 .1419 .0236 .0154 .0598  
 .050 .4625 .3425 .0913 .0343 .0046  
 .075 .4324 .2743 .2235 .2223 .2176  
 .100 .2869 .2074 .1985 .2137 .2061  
 .125 .1218 .1024 .3150 .1423 .1132  
 .150 .3353 .5552 .1392 .5515 .5491  
 .175 .5357 .5560 .5560 .5534 .5443  
 .200 .5673 .5713 .5557 .5515 .5235 .4115

DATE 14 FEB 76 TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

ALPHA ( 1 ) = -3.993 BETA ( 3 ) = 4.275 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057  
(XEBV76)

SECTION 1 ( 1 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z-8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.7893	.6702		.6179		.5539	.4660		
.025	.0843	-.0824		-.2607		-.4782	-.5373		
.050	.1218	-.0996		-.3014		-.4588	-.4952		
.075	.1505	-.0893		-.0702		-.3300	-.3508		
.100	.2079	.0843		-.0455		.0233	-.1475		
.125	.2079	.0843		.0953		.0224	.0407		
.150	.0420	.0084							
.175	-.3807	-.5817		-.1326		-.5641	-.5616		
.200	-.3811	-.5528		-.5822		-.5864	-.5637		
.225	-.3811	-.5528		-.5796		-.5758	-.5520		
.250									

ALPHA ( 2 ) = .029 BETA ( 1 ) = -3.866 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093

SECTION 1 ( 2 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z-8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.7184	.5956		.5730		.5608	.5663		
.025	.5213	.4457		.3899		.3940	.319		
.050	.5482	.4430		.3649		.3916	.3919		
.075	.4477	.3427		.3177		.3290	.3184		
.100	.3426	.2544		.2607		.3096	.2287		
.125	.1432	.1240		.2340		.1813	.1025		
.150	-.1432	-.5510		-.5527		-.5441	-.4084		
.175	-.3475	-.5628		-.5411		-.5455	-.5390		
.200	-.3475	-.5628		-.5332		-.5352	-.5037		
.225									

ALPHA ( 2 ) = .032 BETA ( 2 ) = .181 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093

SECTION 1 ( 2 ) VERTICAL									
DEPENDENT VARIABLE CP									
Z-8V	.1590	.3170	.4590	.6020	.6970	.8390	.9250		
X/CV									
.000	.7571	.6894		.6241		.5702	.4793		
.025	.0009	.0031		-.0225		-.0277	-.1012		
.050	.0009	.0031		.0051		-.0162	-.0493		
.075	.0009	.0031		.1630		.1640	.1610		
.100	.0009	.0031		.1415		.1551	.1433		
.125	.0009	.0031		.2435		.0959	.0644		
.150	.0009	.0031		-.1452		-.5574	-.5558		
.175	.0009	.0031		-.5654		-.5632	-.5558		
.200	.0009	.0031		-.5658		-.5629	-.5281		
.225									

ORIGINAL PAGE 13  
OF POOR QUALITY

DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 3 ) = .029 BETA ( 3 ) = 4.255 MACH = 1.3913 Q = 598.64 P = 441.83 RN/L = 2.9093 (XEBV76)

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1590	1610	1630	1650	1670	1690	1710	1730	1750
1590	.5374	.4620	.3659						
1610	.2993	.4219	.3453						
1630	.3352	.4708	.5039						
1650	.1171	.3526	.3737						
1670	.0814	.3324	.3340						
1690	.0610	.3282	.3140						
1710	.1429	.5797	.3878						
1730	.5952	.5974	.4279						
1750	.5914	.5938	.4499						

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1590	1610	1630	1650	1670	1690	1710	1730	1750
1590	.4975	.4621	.4549						
1610	.3030	.3100	.3008						
1630	.3033	.3085	.3118						
1650	.2418	.2514	.2483						
1670	.1232	.2325	.1838						
1690	.2230	.1327	.0543						
1710	.5630	.5567	.4218						
1730	.5552	.5564	.4533						
1750	.5492	.5486	.4487						

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION 1 - INVERTICAL

DEPENDENT VARIABLE CP

Z ( ft )	1590	1610	1630	1650	1670	1690	1710	1730	1750
1590	.5435	.4598	.3871						
1610	.3604	.4048	.3442						
1630	.3435	.4628	.4079						
1650	.1075	.1010	.1014						
1670	.0843	.0919	.0830						
1690	.1834	.0478	.0169						
1710	.5682	.5680	.4224						
1730	.5747	.5771	.4586						
1750	.5782	.5754	.4535						



DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA = 50 = 11.813 BETA ( 1 ) = 7.951 BETA ( 3 ) = 4.247 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9153  
 AMES 11-073(0A148) -14CA/B/C ORB VERTICAL (XE8V76)

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z ( FT ) 1590 1370 1150 930 710 490 270

X ( IN )

1000	.5510	.5052	.3837	.2921	.2438
900	.0538	-.1597	-.3537	-.4814	-.5559
800	.1172	-.1408	-.3398	-.4664	-.5127
700	.1806	-.0770	-.2797	-.3259	-.4037
600	.2440	-.0132	-.1782	-.1144	-.1104
500	.3074	.0506	-.0112	-.0933	-.0984
400	.3708	.1140	.0289	-.0111	-.5340
300	.4342	.1774	.0839	-.0003	-.4410
200	.4976	.2408	.1473	-.0003	-.5556
100	.5610	.3042	.2107	-.0025	-.4759
0	.6244	.3676	.2741	-.0025	-.4662

ALPHA = 50 = 11.813 BETA ( 1 ) = 7.951 MACH = 1.3932 Q = 600.00 P = 441.82 RN/L = 2.9227

SECTION 2 - VERTICAL

DEPENDENT VARIABLE CP

Z ( FT ) 1590 1370 1150 930 710 490 270

X ( IN )

1000	.6435	.5516	.3934	.2384	.2936
900	.0538	-.1597	-.3537	-.4814	-.5559
800	.1172	-.1408	-.3398	-.4664	-.5127
700	.1806	-.0770	-.2797	-.3259	-.4037
600	.2440	-.0132	-.1782	-.1144	-.1104
500	.3074	.0506	-.0112	-.0933	-.0984
400	.3708	.1140	.0289	-.0111	-.5340
300	.4342	.1774	.0839	-.0003	-.4410
200	.4976	.2408	.1473	-.0003	-.5556
100	.5610	.3042	.2107	-.0025	-.4759
0	.6244	.3676	.2741	-.0025	-.4662

ALPHA = 50 = 11.813 BETA ( 2 ) = 1.191 MACH = 1.3932 Q = 600.10 P = 441.82 RN/L = 2.9227

SECTION 3 - VERTICAL

DEPENDENT VARIABLE CP

Z ( FT ) 1590 1370 1150 930 710 490 270

X ( IN )

1000	.6435	.5516	.3934	.2384	.2936
900	.0538	-.1597	-.3537	-.4814	-.5559
800	.1172	-.1408	-.3398	-.4664	-.5127
700	.1806	-.0770	-.2797	-.3259	-.4037
600	.2440	-.0132	-.1782	-.1144	-.1104
500	.3074	.0506	-.0112	-.0933	-.0984
400	.3708	.1140	.0289	-.0111	-.5340
300	.4342	.1774	.0839	-.0003	-.4410
200	.4976	.2408	.1473	-.0003	-.5556
100	.5610	.3042	.2107	-.0025	-.4759
0	.6244	.3676	.2741	-.0025	-.4662

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV76)

ALPHA ( 5 ) = 11.928 BETA ( 3 ) = 4.262 MACH = 1.3930 Q = 600.10 P = 441.82 RN/L = 2.9227

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/B	1.550	1.370	1.490	1.620	1.690	1.830	1.9250
X/C							
0.00	18.123	14.934	13.097	12.133	11.715		
0.05	17.520	14.337	12.507	11.543	11.125		
0.10	16.917	13.740	11.910	10.946	10.528		
0.15	16.314	13.143	11.317	10.353	9.935		
0.20	15.711	12.546	10.724	9.760	9.342		
0.25	15.108	11.949	10.131	9.167	8.749		
0.30	14.505	11.352	9.538	8.574	8.156		
0.35	13.902	10.755	8.945	7.981	7.563		
0.40	13.299	10.158	8.352	7.388	6.970		
0.45	12.696	9.561	7.759	6.795	6.377		
0.50	12.093	8.964	7.166	6.202	5.784		
0.55	11.490	8.367	6.573	5.609	5.196		
0.60	10.887	7.770	5.980	5.016	4.603		
0.65	10.284	7.173	5.387	4.423	4.010		
0.70	9.681	6.576	4.794	3.830	3.417		
0.75	9.078	5.979	4.201	3.237	2.824		
0.80	8.475	5.382	3.608	2.644	2.231		
0.85	7.872	4.785	3.015	2.051	1.638		
0.90	7.269	4.188	2.422	1.458	1.045		
0.95	6.666	3.591	1.829	0.865	0.452		
1.00	6.063	2.994	1.236	0.272	-0.141		

ALPHA ( 6 ) = 15.317 BETA ( 1 ) = 3.830 MACH = 1.3921 Q = 500.28 P = 442.53 RN/L = 2.9208

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/B	1.550	1.370	1.490	1.620	1.690	1.830	1.9250
X/C							
0.00	18.123	14.934	13.097	12.133	11.715		
0.05	17.520	14.337	12.507	11.543	11.125		
0.10	16.917	13.740	11.910	10.946	10.528		
0.15	16.314	13.143	11.317	10.353	9.935		
0.20	15.711	12.546	10.724	9.760	9.342		
0.25	15.108	11.949	10.131	9.167	8.749		
0.30	14.505	11.352	9.538	8.574	8.156		
0.35	13.902	10.755	8.945	7.981	7.563		
0.40	13.299	10.158	8.352	7.388	6.970		
0.45	12.696	9.561	7.759	6.795	6.377		
0.50	12.093	8.964	7.166	6.202	5.784		
0.55	11.490	8.367	6.573	5.609	5.196		
0.60	10.887	7.770	5.980	5.016	4.603		
0.65	10.284	7.173	5.387	4.423	4.010		
0.70	9.681	6.576	4.794	3.830	3.417		
0.75	9.078	5.979	4.201	3.237	2.824		
0.80	8.475	5.382	3.608	2.644	2.231		
0.85	7.872	4.785	3.015	2.051	1.638		
0.90	7.269	4.188	2.422	1.458	1.045		
0.95	6.666	3.591	1.829	0.865	0.452		
1.00	6.063	2.994	1.236	0.272	-0.141		

ALPHA ( 6 ) = 15.317 BETA ( 2 ) = 3.190 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208

SECTION 1 - VERTICAL

DEPENDENT VARIABLE CP

Z/B	1.550	1.370	1.490	1.620	1.690	1.830	1.9250
X/C							
0.00	18.123	14.934	13.097	12.133	11.715		
0.05	17.520	14.337	12.507	11.543	11.125		
0.10	16.917	13.740	11.910	10.946	10.528		
0.15	16.314	13.143	11.317	10.353	9.935		
0.20	15.711	12.546	10.724	9.760	9.342		
0.25	15.108	11.949	10.131	9.167	8.749		
0.30	14.505	11.352	9.538	8.574	8.156		
0.35	13.902	10.755	8.945	7.981	7.563		
0.40	13.299	10.158	8.352	7.388	6.970		
0.45	12.696	9.561	7.759	6.795	6.377		
0.50	12.093	8.964	7.166	6.202	5.784		
0.55	11.490	8.367	6.573	5.609	5.196		
0.60	10.887	7.770	5.980	5.016	4.603		
0.65	10.284	7.173	5.387	4.423	4.010		
0.70	9.681	6.576	4.794	3.830	3.417		
0.75	9.078	5.979	4.201	3.237	2.824		
0.80	8.475	5.382	3.608	2.644	2.231		
0.85	7.872	4.785	3.015	2.051	1.638		
0.90	7.269	4.188	2.422	1.458	1.045		
0.95	6.666	3.591	1.829	0.865	0.452		
1.00	6.063	2.994	1.236	0.272	-0.141		

OFFICIAL USE  
OF INFORMATION





(7) 4-6

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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(XE8V77) 1 13 AUG 75 )

CONFERENCE

[illegible]

## PARAMETRIC DATA

RUDDER =	-10.000	SPOBRK =	.000
BDFLAP =	-11.700	L-ELVN =	10.000
R-ELVN =	.10.000	MACH =	1.250

$\alpha_{2-2} = 0.5$      $\beta_{2-2} = -3.849$      $\text{MACH} = 1.2454$      $P = 539.63$      $\text{RN/L} = 3.0204$

SECRET

SECTION / DEPT	DEPENDENT	VARIABLE	CP
200	.580	.5020	.8390
	.3170	.4590	.9250

[illegible]

$\text{CH}_3\text{COOH}$	$= 97.8$	$(2)$	$= 186$	$\text{HCl}$	$= 1.254$
--------------------------	----------	-------	---------	--------------	-----------

Q  
C  
.  
P  
Q  
[  
[  
-

C  
C  
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U  
[  
[  
U

550000	1000000	DEPENDENT VARIABLE CP
2000	1000	.6020
1000	1000	.5970
1000	1000	.8390
1000	1000	.9250

[illegible]

455

STO. VERTICAL

P = 552.63

C = 553.63

Q = 553.59

P = 552.51

Q = 552.51

VERTICAL

Q = 553.59

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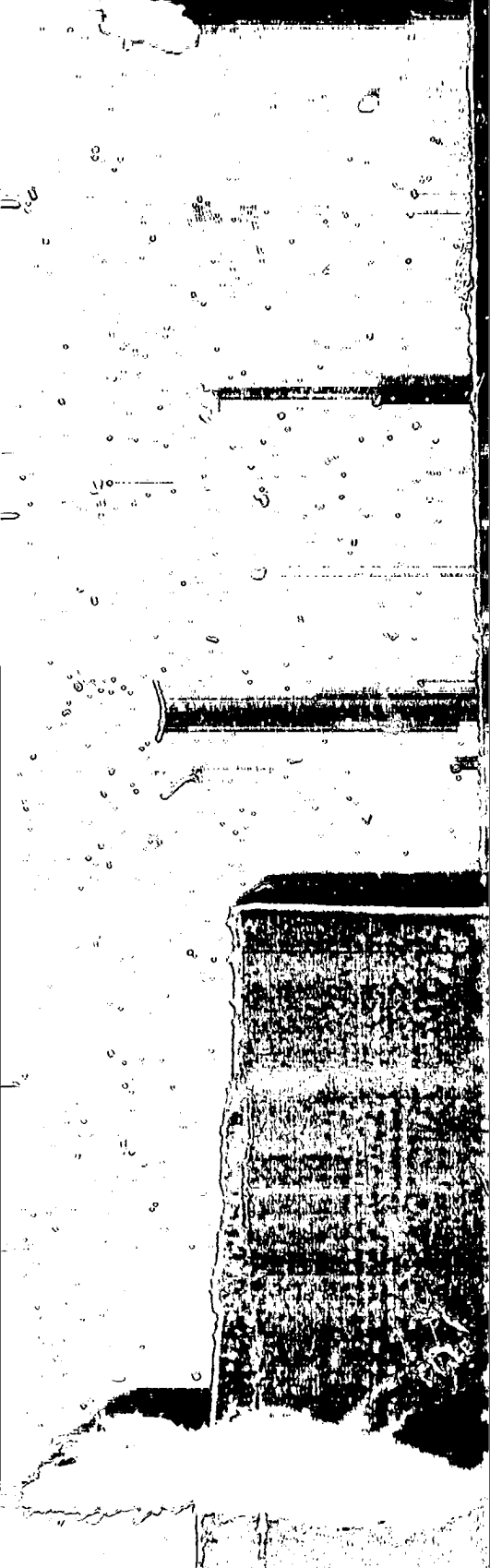
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DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7075

ALPHA ( 4 ) = 7.978 BETA ( 3 ) = 4.242 MACH = 1.2449 Q = 599.64 P = 552.75 PN/L = 3.0238  
 AMES 11-073-0A148: -14CA/B/C ORB VERTICAL (XEBV77)

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6350	.4615	.3378	.2489	.1552
.025	.6621	.4853	.3637	.2654	.1615
.050	.6876	.5083	.3869	.2870	.1807
.100	.7359	.5522	.4283	.3253	.2092
.150	.7625	.5779	.4534	.3497	.2253
.200	.7791	.5945	.4705	.3668	.2424
.250	.7957	.6111	.4871	.3834	.2590
.300	.8123	.6277	.5037	.4000	.2756
.350	.8289	.6443	.5203	.4166	.2922
.400	.8455	.6609	.5369	.4332	.3088
.450	.8621	.6775	.5535	.4498	.3254
.500	.8787	.6941	.5701	.4664	.3420
.550	.8953	.7107	.5867	.4830	.3586
.600	.9119	.7273	.6033	.5000	.3752
.650	.9285	.7439	.6199	.5166	.3918
.700	.9451	.7605	.6365	.5332	.4084
.750	.9617	.7771	.6531	.5498	.4250
.800	.9783	.7937	.6697	.5664	.4416
.850	.9949	.8103	.6863	.5830	.4582
.900	.1015	.8269	.7029	.6000	.4748
.950	.1081	.8435	.7195	.6166	.4914

ALPHA ( 5 ) = 11.981 BETA ( 1 ) = -3.647 MACH = 1.2454 Q = 599.63 P = 552.28 PN/L = 3.0229

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6350	.4615	.3378	.2489	.1552
.025	.6621	.4853	.3637	.2654	.1615
.050	.6876	.5083	.3869	.2870	.1807
.100	.7359	.5522	.4283	.3253	.2092
.150	.7625	.5779	.4534	.3497	.2253
.200	.7791	.5945	.4705	.3668	.2424
.250	.7957	.6111	.4871	.3834	.2590
.300	.8123	.6277	.5037	.4000	.2756
.350	.8289	.6443	.5203	.4166	.2922
.400	.8455	.6609	.5369	.4332	.3088
.450	.8621	.6775	.5535	.4498	.3254
.500	.8787	.6941	.5701	.4664	.3420
.550	.8953	.7107	.5867	.4830	.3586
.600	.9119	.7273	.6033	.5000	.3752
.650	.9285	.7439	.6199	.5166	.3918
.700	.9451	.7605	.6365	.5332	.4084
.750	.9617	.7771	.6531	.5498	.4250
.800	.9783	.7937	.6697	.5664	.4416
.850	.9949	.8103	.6863	.5830	.4582
.900	.1015	.8269	.7029	.6000	.4748
.950	.1081	.8435	.7195	.6166	.4914

ALPHA ( 5 ) = 11.970 BETA ( 2 ) = .192 MACH = 1.2454 Q = 599.63 P = 552.28 PN/L = 3.0229

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6350	.4615	.3378	.2489	.1552
.025	.6621	.4853	.3637	.2654	.1615
.050	.6876	.5083	.3869	.2870	.1807
.100	.7359	.5522	.4283	.3253	.2092
.150	.7625	.5779	.4534	.3497	.2253
.200	.7791	.5945	.4705	.3668	.2424
.250	.7957	.6111	.4871	.3834	.2590
.300	.8123	.6277	.5037	.4000	.2756
.350	.8289	.6443	.5203	.4166	.2922
.400	.8455	.6609	.5369	.4332	.3088
.450	.8621	.6775	.5535	.4498	.3254
.500	.8787	.6941	.5701	.4664	.3420
.550	.8953	.7107	.5867	.4830	.3586
.600	.9119	.7273	.6033	.5000	.3752
.650	.9285	.7439	.6199	.5166	.3918
.700	.9451	.7605	.6365	.5332	.4084
.750	.9617	.7771	.6531	.5498	.4250
.800	.9783	.7937	.6697	.5664	.4416
.850	.9949	.8103	.6863	.5830	.4582
.900	.1015	.8269	.7029	.6000	.4748
.950	.1081	.8435	.7195	.6166	.4914

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.962 BETA ( 3 ) = 4.260 MACH = 1.2454 ORB VERTICAL  
(XEBV77) = 552.28 RN/L = 3.0229

SECTION ( 1 ) VERTICAL

Z/8V .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X/CV

.000	.6603	.4345	.2754	.1657	.0333
.025	.0507	-.2499	-.4486	-.6036	-.6381
.050	.1349	-.2290	-.4795	-.5985	-.6849
.150	.1631	-.1040	-.3156	-.3527	-.4388
.300	-.0362	-.1537	-.2018	-.2454	-.2609
.450	-.2206	-.2549	-.1031	-.2291	-.2108
.600	-.4456	-.7773	-.7720	-.7614	-.6181
.750	-.7319	-.7399	-.7698	-.7662	-.7449
.900	-.9435	-.7509	-.7571	-.7420	-.6510

DATE 14 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7077

(XEBV78) ( 13 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

## REFERENCE DATA

CELE 1 2000.000 50.0 FT. XMRP = 1076.6800 IN. XO  
 CELE 2 1000.000 50.0 FT. YMRP = .0000 IN. YO  
 CELE 3 1000.000 50.0 FT. ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.100

ALPHA ( 1 ) = -4.052 BETA ( 1 ) = -3.838 MACH = 1.0993 Q = 599.81 P = 709.06 RN/L = 3.1886

## SECTION 1 VERTICAL

DEPENDENT VARIABLE CP	
7.8	.1580 .3170 .4590 .6020 .6970 .8390 .9250
7.9	.7000 .5592 .5398 .5666 .5289
8.0	.3777 .3527 .3080 .3527 .3080
8.1	.3281 .3398 .3073 .3398 .3073
8.2	.2600 .2581 .2080 .2581 .2080
8.3	.1537 .1760 .0870 .1760 .0870
8.4	.3073 .0344 .0322 .0344 .0322
8.5	.1509 .0220 .0224 .0224 .0224
8.6	.1906 .0208 .0231 .0231 .0231
8.7	.1835 .0620 .0650 .0650 .0650

ALPHA ( 2 ) = -4.058 BETA ( 2 ) = .195 MACH = 1.0993 Q = 599.81 P = 709.06 RN/L = 3.1886

## SECTION 2 VERTICAL

DEPENDENT VARIABLE CP	
7.8	.1580 .3170 .4590 .6020 .6970 .8390 .9250
7.9	.6247 .5302 .5263
8.0	.1328 .1460 .2228
8.1	.0514 .0314 .1517
8.2	.0873 .0908 .1033
8.3	.0648 .0873 .0281
8.4	.1801 .0531 .1129
8.5	.1417 .0200 .0305
8.6	.1417 .0200 .0305
8.7	.1417 .0200 .0305

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7078

ALPHA ( 1 ) = -4.065 BETA ( 3 ) = 4.277 MACH = 1.0993 Q = 599.81 P = 709.06 RN/L = 3.1886  
 (XEBV78)

## ORB VERTICAL

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z' (V)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/C	.6837	.5507	.5045	.4131	.3722		
.000	.0193	-.3373	-.5057	-.7562	-.8155		
.025	.0349	-.2577	-.5323	-.7531	-.7941		
.050	.1206	-.0722	-.2260	-.4234	-.5297		
.100	.0390	-.0777	-.2040	-.2043	-.1908		
.150	-.1213	-.1623	-.1022	-.2124	-.2088		
.200	-.5534	-.0536	-.1497	-.9073	-.9509		
.250	-.6431	-.1641	-.9531	-.8261	-.9035		
.300		-.6657	-.9428	-.8395	-.9189		
.350				-.8395	-.8657		

ALPHA ( 2 ) = .040 BETA ( 1 ) = -3.853 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z' (V)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/C	.6832	.5015	.4530	.4716	.4420		
.000	.0193	-.3222	-.5230	-.2741	-.2489		
.025	.0349	-.2046	-.2629	-.2627	-.2458		
.050	.1206	-.2109	-.2109	.1917	.1504		
.100	.0390	-.1673	.1293	.1314	.0339		
.150	-.1213	-.0345	.2352	-.0526	-.1265		
.200	-.5534	-.0219	-.1217	-.9346	-.9357		
.250	-.6431	-.0742	-.9153	-.9301	-.7481		
.300		-.5647	-.9593	-.9345	-.7761		
.350				-.9159	-.8708		

ALPHA ( 3 ) = .041 BETA ( 2 ) = .156 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

## SECTION 1 ( VERTICAL

## DEPENDENT VARIABLE CP

Z' (V)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/C	.7158	.6278	.5412	.4950	.4262		
.000	.0193	-.0573	-.1202	-.1065	-.2704		
.025	.0349	-.0594	-.0508	-.1343	-.2029		
.050	.1206	-.0711	.0256	.0167	.0321		
.100	.0390	-.0103	.0074	.0335	-.0214		
.150	-.1213	.1193	.1193	.0335	-.0214		
.200	-.5534	-.1154	-.1154	-.9506	-.9457		
.250	-.6431	-.0440	-.0440	-.9532	-.9450		
.300		-.6033	-.6033	-.8029	-.7771		
.350				-.8029	-.7577		



DATE 14 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 2 ) = .035 BETA ( 3 ) = 4.252 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896  
 AMES 11-07310A148) -140A/B/C ORB VERTICAL (XEBV78)

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z (ft)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
.000	.6375	.4867		.4327	.3334	.2715	
.025	.5682	.3543		.5223	.7707	.6190	
.050	.5199	.3268		.5541	.7583	.6034	
.075	.4753	.3123		.5810	.7594	.5149	
.100	.4363	.3154		.6504	.7325	.2318	
.125	.4058	.3222		.6571	.6423	.2542	
.150	.3847	.3228	.1280	.9327	.5105	.7157	
.175	.3633	.3193	.9572	.9373	.5871	.7719	
.200	.3433	.3100	.9321	.7108	.7092	.6777	.7389

RN/L = 3.1896

P = 599.58

Q

MACH = 1.0989

4.252

BETA ( 1 ) = -3.864

ALPHA ( 3 ) = .035

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z (ft)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
.000	.6375	.4867		.4327	.3334	.2715	
.025	.5682	.3543		.5223	.7707	.6190	
.050	.5199	.3268		.5541	.7583	.6034	
.075	.4753	.3123		.5810	.7594	.5149	
.100	.4363	.3154		.6504	.7325	.2318	
.125	.4058	.3222		.6571	.6423	.2542	
.150	.3847	.3228	.1280	.9327	.5105	.7157	
.175	.3633	.3193	.9572	.9373	.5871	.7719	
.200	.3433	.3100	.9321	.7108	.7092	.6777	.7389

RN/L = 3.1896

P = 599.58

Q

MACH = 1.0989

4.252

BETA ( 2 ) = .194

ALPHA ( 3 ) = .035

SECTION 1 INVERTICAL

DEPENDENT VARIABLE CP

Z (ft)	1.590	3.170	4.590	6.020	6.970	8.390	9.250
X/CV							
.000	.6375	.4867		.4327	.3334	.2715	
.025	.5682	.3543		.5223	.7707	.6190	
.050	.5199	.3268		.5541	.7583	.6034	
.075	.4753	.3123		.5810	.7594	.5149	
.100	.4363	.3154		.6504	.7325	.2318	
.125	.4058	.3222		.6571	.6423	.2542	
.150	.3847	.3228	.1280	.9327	.5105	.7157	
.175	.3633	.3193	.9572	.9373	.5871	.7719	
.200	.3433	.3100	.9321	.7108	.7092	.6777	.7389

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DATE 14 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 7080

AMES 11-073(OA148) -140A/B/C ORB VERTICAL

ALPHA ( 3 ) = 4.004 BETA ( 3 ) = 4.242 MACH = 1.0989 Q = 599.58 P = 709.30 RN/L = 3.1896  
 SECTION ( 1 ) VERTICAL

Z/BV .1500 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .5991 .4359 .3460 .2529 .1594  
 .025 .1124 .3930 .5569 .7845 .8442  
 .050 .0128 .3489 .6100 .7627 .8198  
 .100 .0386 .1805 .3741 .4899 .5513  
 .200 .0690 .1721 .2793 .2743 .2770  
 .300 .1251 .2828 .0910 .2657 .2837  
 .400 .1442 .0559 .9747 .9893 .9618 .7379  
 .500 .1354 .0536 .9826 .9541 .8566 .7944  
 .600 .1354 .0536 .7654 .6903 .7184 .6363 .7719

ALPHA ( 4 ) = 8.022 BETA ( 1 ) = -3.857 MACH = 1.1003 Q = 600.35 P = 708.37 R/L = 3.1925

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6237 .3934 .3024 .2756 .2624  
 .025 .3435 .1517 .0901 .1131 .1131  
 .050 .3637 .1932 .0920 .1051 .1078  
 .100 .2136 .0644 .0311 .0421 .0360  
 .200 .0217 .0347 .0156 .0263 .0779  
 .300 .1125 .1415 .0155 .1401 .2226  
 .400 .5202 .9413 .1228 .9571 .9565 .8051  
 .500 .1407 .0132 .9373 .9537 .9488 .8228  
 .600 .1552 .0178 .8923 .9303 .8991 .8165

ALPHA ( 4 ) = 8.002 BETA ( 2 ) = .196 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925

SECTION ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .6514 .4435 .3716 .3039 .1990  
 .025 .1121 .1455 .2949 .3095 .3778  
 .050 .2342 .0561 .2258 .3135 .3261  
 .100 .1593 .0743 .1028 .1076 .1016  
 .200 .0371 .1238 .1186 .0959 .1231  
 .300 .2000 .2158 .0057 .2033 .2488  
 .400 .1457 .9575 .9751 .9701 .7887  
 .500 .1151 .0794 .9680 .9641 .8037 .8249  
 .600 .1151 .0794 .7335 .6851 .6725 .7761

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7081

ALPHA ( 4 ) = 7.937 BETA ( 3 ) = 4.238 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925  
 SECTION ( 1 ) INVERTICAL  
 AMES 11-07310A148) -140A/B/C ORB VERTICAL  
 (XEBV78)

DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6072	.3649	.2682	.1687	.0499
.025	-.0457	-.3979	-.5975	-.7777	-.8433
.050	.0548	-.3376	-.6353	-.7476	-.8085
.075	.0882	-.2088	-.4196	-.4624	-.5557
.100	-.1250	-.2335	-.2897	-.3465	-.4037
.125	-.3123	-.3369	-.1354	-.2973	-.2624
.150	-.4717	-.2609	-.1253	-.9897	-.9884
.175	-.4489	-.7372	-.9641	-.9547	-.7749
.200	-.4489	-.5765	-.7417	-.7131	-.5824
.225					-.6814

ALPHA ( 5 ) = 11.953 BETA ( 1 ) = -3.838 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1917  
 SECTION ( 1 ) INVERTICAL

DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6072	.3649	.2682	.1687	.0499
.025	-.0457	-.3979	-.5975	-.7777	-.8433
.050	.0548	-.3376	-.6353	-.7476	-.8085
.075	.0882	-.2088	-.4196	-.4624	-.5557
.100	-.1250	-.2335	-.2897	-.3465	-.4037
.125	-.3123	-.3369	-.1354	-.2973	-.2624
.150	-.4717	-.2609	-.1253	-.9897	-.9884
.175	-.4489	-.7372	-.9641	-.9547	-.7749
.200	-.4489	-.5765	-.7417	-.7131	-.5824
.225					-.6814

ALPHA ( 5 ) = 11.957 BETA ( 2 ) = .194 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1917  
 SECTION ( 1 ) INVERTICAL

DEPENDENT VARIABLE CP

Z BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6072	.3649	.2682	.1687	.0499
.025	-.0457	-.3979	-.5975	-.7777	-.8433
.050	.0548	-.3376	-.6353	-.7476	-.8085
.075	.0882	-.2088	-.4196	-.4624	-.5557
.100	-.1250	-.2335	-.2897	-.3465	-.4037
.125	-.3123	-.3369	-.1354	-.2973	-.2624
.150	-.4717	-.2609	-.1253	-.9897	-.9884
.175	-.4489	-.7372	-.9641	-.9547	-.7749
.200	-.4489	-.5765	-.7417	-.7131	-.5824
.225					-.6814

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV78)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

ALPHA ( 5 ) = 11.959 BETA ( 3 ) = 4.256 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1917

SECTION ( 1 ) VERTICAL

DEPENDENT VARIABLE CP

Z/BV .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.6394	.3532	.2061	.0743	-.0352
.025	-.0163	-.4067	-.6106	-.7477	-.8216
.050	.0910	-.3530	-.6449	-.7449	-.8214
.150	.3674	-.2148	-.4615	-.4872	-.6184
.300	-.1532	-.2659	-.3201	-.4423	-.4524
.500	-.3461	-.2643	-.1877	-.3340	-.3207
.695	-.5580	-.5516	-.1544	-.10090	-.8455
.775	-.4422	-.7259	-.9127	-.9518	-.6318
.900		-.5593	-.7665	-.7024	-.5870
					-.5999

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7083

(XEBV79) ( 13 AUG 75 )

AMES 11-07310A148) -140A/B/C DRB VERTICAL

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8200 IN. YMRP = .0000 IN. YO  
 BREF = 935.0550 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = .900

ALPHA ( 1 ) = -4.051 BETA ( 1 ) = -3.840 MACH = .89997 Q = 600.24 P = 1058.8 RN/L = 3.5827

## SECTION 1 ( 1 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 .5055 .3703 .4019 .4594 .4100  
 .025 .3493 .1934 .2015 .1936 .1196  
 .050 .3369 .1691 .1841 .1815 .1296  
 .075 .1555 .0936 .0947 .0733 .0327  
 .100 .0553 .0052 .0010 .0370 .1136  
 .125 .1185 .0207 .0643 .2201 .2753  
 .150 .3371 .0229 .1392 .5076 .9734 .4788 .3269  
 .175 .1242 .0406 .4950 .4843 .9356 .4181 .3134  
 .200 .12290 .5728 .4448 .3271 .3295 .2636

ALPHA ( 1 ) = -4.055 BETA ( 2 ) = .202 MACH = .89997 Q = 600.24 P = 1058.8 RN/L = 3.5827

## SECTION 1 ( 2 ) VERTICAL

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250  
 DEPENDENT VARIABLE CP

## X/CV

.000 .5053 .4689 .4970 .4654 .4315  
 .025 .0265 .3020 .4726 .5311 .6350  
 .050 .1539 .0149 .1507 .2020 .4853  
 .075 .0437 .0373 .1279 .1390 .1241  
 .100 .1135 .0009 .1497 .1504 .2196  
 .125 .0229 .0172 .0382 .2978 .2755  
 .150 .3373 .0169 .5151 .2990 .2872  
 .175 .1242 .0406 .4957 .3856 .2600 .2531  
 .200 .12290 .5728 .4448 .3271 .3295 .2636

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 1 ) = -.4070 BETA ( 3 ) = 4.283 MACH = .89997 Q = 599.75 P = 1058.8 RN/L = 3.5827  
 AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV79)

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .4699 .3297 .2935 .1749 .0987  
 .025 -.2123 -.1621 -.1692 -.0856 -.0226  
 .050 -.1315 -.1320 -.1367 -.0958 -.0286  
 .075 -.1156 -.1258 -.1354 -.0954 -.0286  
 .100 -.0947 -.1132 -.1232 -.0954 -.0286  
 .125 -.0737 -.1048 -.1154 -.0954 -.0286  
 .150 -.0533 -.0948 -.1054 -.0954 -.0286  
 .175 -.0345 -.0754 -.0854 -.0954 -.0286  
 .200 -.0156 -.0565 -.0665 -.0954 -.0286  
 .225 -.0000 -.0376 -.0476 -.0954 -.0286  
 .250 -.0156 -.0187 -.0287 -.0954 -.0286  
 .275 -.0345 -.0000 -.0100 -.0954 -.0286  
 .300 -.0533 -.0187 -.0287 -.0954 -.0286  
 .325 -.0737 -.0000 -.0100 -.0954 -.0286  
 .350 -.0947 -.0187 -.0287 -.0954 -.0286  
 .375 -.1156 -.0000 -.0100 -.0954 -.0286  
 .400 -.1367 -.0187 -.0287 -.0954 -.0286  
 .425 -.1578 -.0000 -.0100 -.0954 -.0286  
 .450 -.1789 -.0187 -.0287 -.0954 -.0286  
 .475 -.2000 -.0000 -.0100 -.0954 -.0286  
 .500 -.2211 -.0187 -.0287 -.0954 -.0286  
 .525 -.2422 -.0000 -.0100 -.0954 -.0286  
 .550 -.2633 -.0187 -.0287 -.0954 -.0286  
 .575 -.2844 -.0000 -.0100 -.0954 -.0286  
 .600 -.3055 -.0187 -.0287 -.0954 -.0286  
 .625 -.3266 -.0000 -.0100 -.0954 -.0286  
 .650 -.3477 -.0187 -.0287 -.0954 -.0286  
 .675 -.3688 -.0000 -.0100 -.0954 -.0286  
 .700 -.3899 -.0187 -.0287 -.0954 -.0286  
 .725 -.4110 -.0000 -.0100 -.0954 -.0286  
 .750 -.4321 -.0187 -.0287 -.0954 -.0286  
 .775 -.4532 -.0000 -.0100 -.0954 -.0286  
 .800 -.4743 -.0187 -.0287 -.0954 -.0286  
 .825 -.4954 -.0000 -.0100 -.0954 -.0286  
 .850 -.5165 -.0187 -.0287 -.0954 -.0286  
 .875 -.5376 -.0000 -.0100 -.0954 -.0286  
 .900 -.5587 -.0187 -.0287 -.0954 -.0286

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.859 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3945 .3390  
 .025 .1580 .0906  
 .050 .1422 .0975  
 .075 .0599 .0814  
 .100 .0276 .0635  
 .125 .0000 .0436  
 .150 .1169 .0219  
 .175 .0581 .0000  
 .200 .0000 .0000  
 .225 .0000 .0000  
 .250 .0000 .0000  
 .275 .0000 .0000  
 .300 .0000 .0000  
 .325 .0000 .0000  
 .350 .0000 .0000  
 .375 .0000 .0000  
 .400 .0000 .0000  
 .425 .0000 .0000  
 .450 .0000 .0000  
 .475 .0000 .0000  
 .500 .0000 .0000  
 .525 .0000 .0000  
 .550 .0000 .0000  
 .575 .0000 .0000  
 .600 .0000 .0000  
 .625 .0000 .0000  
 .650 .0000 .0000  
 .675 .0000 .0000  
 .700 .0000 .0000  
 .725 .0000 .0000  
 .750 .0000 .0000  
 .775 .0000 .0000  
 .800 .0000 .0000  
 .825 .0000 .0000  
 .850 .0000 .0000  
 .875 .0000 .0000  
 .900 .0000 .0000

ALPHA ( 2 ) = .042 BETA ( 2 ) = .192 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z/BV .1580 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000 .3943 .3393  
 .025 .1580 .0906  
 .050 .1422 .0975  
 .075 .0599 .0814  
 .100 .0276 .0635  
 .125 .0000 .0436  
 .150 .1169 .0219  
 .175 .0581 .0000  
 .200 .0000 .0000  
 .225 .0000 .0000  
 .250 .0000 .0000  
 .275 .0000 .0000  
 .300 .0000 .0000  
 .325 .0000 .0000  
 .350 .0000 .0000  
 .375 .0000 .0000  
 .400 .0000 .0000  
 .425 .0000 .0000  
 .450 .0000 .0000  
 .475 .0000 .0000  
 .500 .0000 .0000  
 .525 .0000 .0000  
 .550 .0000 .0000  
 .575 .0000 .0000  
 .600 .0000 .0000  
 .625 .0000 .0000  
 .650 .0000 .0000  
 .675 .0000 .0000  
 .700 .0000 .0000  
 .725 .0000 .0000  
 .750 .0000 .0000  
 .775 .0000 .0000  
 .800 .0000 .0000  
 .825 .0000 .0000  
 .850 .0000 .0000  
 .875 .0000 .0000  
 .900 .0000 .0000

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TABULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

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AMES 11-073(04148) -140A/B/C ORB VERTICAL

(XEBV791)

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

DEPENDENT VARIABLE

DEPENDENT VARIABLE CP

ALPHA ( 2 )	BETA ( 3 )	MACH	Q	P	RN/L
.032	4.260	.89957	599.75	1058.8	3.5771

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

DEPENDENT VARIABLE

DEPENDENT VARIABLE CP

ALPHA ( 2 )	BETA ( 3 )	MACH	Q	P	RN/L
.032	4.260	.89957	599.75	1058.8	3.5771

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 MACH = .89957 Q = 599.75 P = 1058.8 RN/L = 3.5771

DEPENDENT VARIABLE

DEPENDENT VARIABLE CP

ALPHA ( 2 )	BETA ( 3 )	MACH	Q	P	RN/L
.032	4.260	.89957	599.75	1058.8	3.5771

COMPUTED PRESSURE DATA - 04148 ( AMES 11-073-1 )

AMES 11-073-04148) -140A/B/C CPB VERTICAL (NEB079)

RN/L = 3.5793

P

Q = 600.44

MACH = .9070

SEPA = 1.01

DEPENDENT VARIABLE CP

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

CPB VERTICAL

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CPB VERTICAL

CPB VERTICAL

CPB VERTICAL



RELATED PRESSURE DATA - CALIB (AMES 11-073-1)

AMES 11-073-CALIB-1 -140A/B/C ORB VERTICAL

1058.1 SNL = 3.5925

P

Q = 593.14

R = 900.17

SNL = 3.5925

DEPENDENT VARIABLE CP

1.000 1.000 1.000 1.000 1.000 1.000

1.1158 -2.187  
1.8013 -1.554  
1.7810 -1.235  
1.7810 -1.6578  
1.7590 -1.5378  
1.7513 -1.413  
1.7407 -1.285  
1.7297 -1.157  
1.7186 -1.029

1059.2 SNL = 3.5789

P

Q = 593.14

R = 900.17

SNL = 3.5789

DEPENDENT VARIABLE CP

1.000 1.000 1.000 1.000 1.000 1.000

1.1158 -2.187  
1.8013 -1.554  
1.7810 -1.235  
1.7810 -1.6578  
1.7590 -1.5378  
1.7513 -1.413  
1.7407 -1.285  
1.7297 -1.157  
1.7186 -1.029

1059.2 SNL = 3.5789

P

Q = 593.14

R = 900.17

SNL = 3.5789

DEPENDENT VARIABLE CP

1.000 1.000 1.000 1.000 1.000 1.000

1.1158 -2.187  
1.8013 -1.554  
1.7810 -1.235  
1.7810 -1.6578  
1.7590 -1.5378  
1.7513 -1.413  
1.7407 -1.285  
1.7297 -1.157  
1.7186 -1.029

AVES 11-07310A(48) -140A/B/C ORB VERTICAL (XEBV79)  
 AVE 11-07310A(48) -140A/B/C ORB VERTICAL  
 DEFA (3) = 1.265 MACH = .89890 Q = 599.14 P = 1059.2 RN/L = 3.5769

[illegible]

DEPENDENT VARIABLE CP

[illegible]

951

[illegible]





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBV80)

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

ALPHA ( 2 ) = -.053 BETA ( 1 ) = -7.896 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 84 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.0355	-.1842	-.1076	.1010	.0110	.0110
.005	.3913	.3395	.3559	.3123	.2955	.2955
.010	.3427	.2974	.2883	.2677	.2485	.2485
.015	.1875	.1485	.1426	.1191	.0866	.0866
.020	.0517	.0090	.0015	-.0135	-.0507	-.0507
.025	-.1290	-.2701	-.1278	-.2630	-.2345	-.2345
.030	-.2930	-.5075	-.16304	-.7287	-.5842	-.3659
.035	-.2549	-.3178	-.3051	-.5729	-.3308	-.2082
.040	-.2137	-.1796	-.1796	-.1583	-.1169	-.0958

ALPHA ( 2 ) = -.008 BETA ( 2 ) = -3.854 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 84 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.7422	.2529	.2963	.3927	.3720	.3720
.005	.2063	.1159	.1145	.0724	-.0057	-.0057
.010	.0990	.0164	.0993	.0635	.0433	.0433
.015	.0235	.0109	-.0051	-.0237	-.0318	-.0318
.020	-.0101	-.0931	-.1176	-.1176	-.1238	-.1238
.025	-.0640	-.3355	-.1789	-.3156	-.2033	-.2033
.030	-.2011	-.5325	-.1406	-.7654	-.3500	-.3500
.035	-.2528	-.3192	-.3467	-.6147	-.4029	-.2222
.040	-.2095	-.1751	-.1751	-.1763	-.1574	-.0980

ALPHA ( 2 ) = .029 BETA ( 3 ) = .176 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z 84 .1590 .3170 .4590 .6020 .6970 .8390 .9250

X/CV

.000	.4342	.3713	.3772	.2992	.2805	.2805
.005	.1325	.0620	-.1617	-.4582	-.8133	-.8133
.010	.0135	.1293	-.2512	-.2923	-.3393	-.3393
.015	.0030	.1604	-.1990	-.2244	-.1978	-.1978
.020	.1055	.0001	-.2434	-.2263	-.2139	-.2139
.025	.2700	-.4001	-.2827	-.3497	-.2686	-.2686
.030	.2045	.0151	-.5685	-.4914	-.3083	-.3083
.035	.1275	.0349	-.4361	-.5955	-.4013	-.2402
.040	.0546	.0009	-.1835	-.3208	-.2470	-.1464

ALPHA 2' = .052 BETA ( 1 ) = 4.039 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222  
 (XEBV80)

## AMES 11-073(0A148) - 140A/B/C OPB VERTICAL

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1150	3170	4590	6020	6970	8390	9250
100	.2129	.0048		-.0545		-.2268	-.2453
200	-.0487	-.0770		-.0371		-.7229	-1.2457
300	-.0580	-.0931		-.0708		-.6915	-1.1601
400	-.0342	-.0526		-.7124		-.6258	-.7085
500	-.0234	-.0342		-.0531		-.5003	-.4110
600	-.0533	-.0407		-.0453		-.4507	-.2935
700	-.0545	-.0620		-.6701		-.4047	-.3669
800	-.0523	-.0517	-.1409	-.6317	-.6701	-.2293	-.2482
900	-.0523	-.0517	-.1183	-.0379	-.0413	-.2293	-.2482
1000		-.0512		-.1183	-.0379	-.1753	-.1678

ALPHA 2' = .052 BETA ( 1 ) = 8.224 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1150	3170	4590	6020	6970	8390	9250
100	.2129	.0048		-.6835		-.6995	-.4978
200	-.0487	-.0770		-.1183		-.6631	-.5746
300	-.0580	-.0931		-.0347		-.6676	-.6671
400	-.0342	-.0526		-.1171		-.6063	-.6532
500	-.0234	-.0342		-.1075		-.7212	-.6441
600	-.0533	-.0407		-.0740		-.5815	-.4792
700	-.0545	-.0620	-.1445	-.5760	-.5739	-.4462	-.3712
800	-.0523	-.0517	-.3472	-.0406	-.0910	-.3913	-.3477
900	-.0523	-.0517	-.2560	-.0302	-.03897	-.2653	-.3354
1000		-.0512					

ALPHA 3' = 3.023 BETA ( 1 ) = 7.902 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

## SECTION 1 VERTICAL

## DEPENDENT VARIABLE CP

Z (ft)	1150	3170	4590	6020	6970	8390	9250
100	.2129	.0048		-.1261		-.0262	-.0672
200	-.0487	-.0770		-.3237		-.2835	-.2575
300	-.0580	-.0931		-.0581		-.2461	-.2152
400	-.0342	-.0526		-.1208		-.1069	-.0646
500	-.0234	-.0342		-.0367		-.0166	-.0672
600	-.0533	-.0407		-.1153		-.2534	-.2359
700	-.0545	-.0620	-.1312	-.0979	-.1294	-.5150	-.3449
800	-.0523	-.0517	-.3216	-.0324	-.0975	-.2939	-.1626
900	-.0523	-.0517	-.1146	-.1233	-.1003	-.0793	-.0214
1000		-.0512					

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ALPHA ( 3 ) = 3.907 BETA ( 2 ) = -3.886 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207  
(XEBV80)

SECTION 11-073 ( 0A148 ) - 140A/B/C ORB VERTICAL

Z ( 1 ) = .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X ( 1 )	3012	.1954	.2357	.3332	.3149
100	.3012	.1954	.2357	.3332	.3149
105	.3012	.1954	.2357	.3332	.3149
110	.3012	.1954	.2357	.3332	.3149
115	.3012	.1954	.2357	.3332	.3149
120	.3012	.1954	.2357	.3332	.3149
125	.3012	.1954	.2357	.3332	.3149
130	.3012	.1954	.2357	.3332	.3149
135	.3012	.1954	.2357	.3332	.3149
140	.3012	.1954	.2357	.3332	.3149
145	.3012	.1954	.2357	.3332	.3149
150	.3012	.1954	.2357	.3332	.3149
155	.3012	.1954	.2357	.3332	.3149
160	.3012	.1954	.2357	.3332	.3149
165	.3012	.1954	.2357	.3332	.3149
170	.3012	.1954	.2357	.3332	.3149
175	.3012	.1954	.2357	.3332	.3149
180	.3012	.1954	.2357	.3332	.3149
185	.3012	.1954	.2357	.3332	.3149
190	.3012	.1954	.2357	.3332	.3149
195	.3012	.1954	.2357	.3332	.3149
200	.3012	.1954	.2357	.3332	.3149

ALPHA ( 3 ) = 3.907 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

SECTION 11-073 ( 0A148 ) - 140A/B/C ORB VERTICAL

Z ( 1 ) = .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X ( 1 )	.3208	.3208	.3208	.3208	.3208
100	.3208	.3208	.3208	.3208	.3208
105	.3208	.3208	.3208	.3208	.3208
110	.3208	.3208	.3208	.3208	.3208
115	.3208	.3208	.3208	.3208	.3208
120	.3208	.3208	.3208	.3208	.3208
125	.3208	.3208	.3208	.3208	.3208
130	.3208	.3208	.3208	.3208	.3208
135	.3208	.3208	.3208	.3208	.3208
140	.3208	.3208	.3208	.3208	.3208
145	.3208	.3208	.3208	.3208	.3208
150	.3208	.3208	.3208	.3208	.3208
155	.3208	.3208	.3208	.3208	.3208
160	.3208	.3208	.3208	.3208	.3208
165	.3208	.3208	.3208	.3208	.3208
170	.3208	.3208	.3208	.3208	.3208
175	.3208	.3208	.3208	.3208	.3208
180	.3208	.3208	.3208	.3208	.3208
185	.3208	.3208	.3208	.3208	.3208
190	.3208	.3208	.3208	.3208	.3208
195	.3208	.3208	.3208	.3208	.3208
200	.3208	.3208	.3208	.3208	.3208

ALPHA ( 3 ) = 3.907 BETA ( 4 ) = 4.226 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

SECTION 11-073 ( 0A148 ) - 140A/B/C ORB VERTICAL

Z ( 1 ) = .1590 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP

X ( 1 )	.1201	.1201	.1201	.1201	.1201
100	.1201	.1201	.1201	.1201	.1201
105	.1201	.1201	.1201	.1201	.1201
110	.1201	.1201	.1201	.1201	.1201
115	.1201	.1201	.1201	.1201	.1201
120	.1201	.1201	.1201	.1201	.1201
125	.1201	.1201	.1201	.1201	.1201
130	.1201	.1201	.1201	.1201	.1201
135	.1201	.1201	.1201	.1201	.1201
140	.1201	.1201	.1201	.1201	.1201
145	.1201	.1201	.1201	.1201	.1201
150	.1201	.1201	.1201	.1201	.1201
155	.1201	.1201	.1201	.1201	.1201
160	.1201	.1201	.1201	.1201	.1201
165	.1201	.1201	.1201	.1201	.1201
170	.1201	.1201	.1201	.1201	.1201
175	.1201	.1201	.1201	.1201	.1201
180	.1201	.1201	.1201	.1201	.1201
185	.1201	.1201	.1201	.1201	.1201
190	.1201	.1201	.1201	.1201	.1201
195	.1201	.1201	.1201	.1201	.1201
200	.1201	.1201	.1201	.1201	.1201





REF ID: A61481 - 140481C

6

DEPENDENT VARIABLE CP

[illegible]

6

PERCENT VARIABLE CP

[illegible]

Q

DEPENDENT VARIABLE CP

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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TABLED PRESSURE DATA - CA148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C ORB VERTICAL (XEBV80) RN/L = 4.8199

Q = 594.19 P = 2385.7

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BETA ( + ) = 4.242 MACH = .53550

Q = 594.19 P = 2385.7

DEPENDENT VARIABLE CP

BETA ( + ) = 4.242 MACH = .53550

Q = 594.19 P = 2385.7

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Q = 594.19 P = 2385.7

DEPENDENT VARIABLE CP

BETA ( + ) = 4.242 MACH = .53550

Q = 594.19 P = 2385.7

DEPENDENT VARIABLE CP

DATE 14 SEP 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7058

AMES 11-073(CA148) -140A/B/C ORB VERTICAL

(XEBV81) ( 13 AUG 75 )

REFERENCE DATA

PARAMETRIC DATA

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BDFLAP = -11.700 L-ELVN = -10.000  
R-ELVN = 10.000 MACH = 1.400

ALPHA = 0.000 BETA = 0.000 BETA ( 1 ) = .178 MACH = 1.3929 Q = 599.69 P = 441.59 RV/L = 2.9281

DEPENDENT VARIABLE CP

DEPENDENT VARIABLE CP

Z	W	Y	X	CP
0.000	0.000	0.000	0.000	.6970
0.000	0.000	0.000	0.000	.8390
0.000	0.000	0.000	0.000	.9250
0.000	0.000	0.000	0.000	.5875
0.000	0.000	0.000	0.000	.0734
0.000	0.000	0.000	0.000	.0178
0.000	0.000	0.000	0.000	.2191
0.000	0.000	0.000	0.000	.2051
0.000	0.000	0.000	0.000	.1447
0.000	0.000	0.000	0.000	.0584
0.000	0.000	0.000	0.000	.0324
0.000	0.000	0.000	0.000	.0656
0.000	0.000	0.000	0.000	.2731
0.000	0.000	0.000	0.000	.0355
0.000	0.000	0.000	0.000	.2149

ALPHA = 0.000 BETA = 0.000 BETA ( 1 ) = .178 MACH = 1.3934 Q = 599.62 P = 443.71 RV/L = 2.9315

DEPENDENT VARIABLE CP

DEPENDENT VARIABLE CP

Z	W	Y	X	CP
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0.000	0.000	0.000	0.000	.8390
0.000	0.000	0.000	0.000	.9250
0.000	0.000	0.000	0.000	.5709
0.000	0.000	0.000	0.000	.1070
0.000	0.000	0.000	0.000	.0563
0.000	0.000	0.000	0.000	.1519
0.000	0.000	0.000	0.000	.1398
0.000	0.000	0.000	0.000	.0962
0.000	0.000	0.000	0.000	.0728
0.000	0.000	0.000	0.000	.3525
0.000	0.000	0.000	0.000	.3116
0.000	0.000	0.000	0.000	.1105
0.000	0.000	0.000	0.000	.2704



PAGE 11-073(CA163) --14CA/B/C ORB VERTICAL

Q.

**g = 599.65**

79 2306 = 1 3076

100

DEPENDENT VARIABLE CP

0.1970 . 8393 . 9250

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CECIL, FRANKLIN CO. FRANKLIN CO.

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[illegible]

2.3079

443-03

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100

[illegible]

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9390  
9400

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2
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PAGE 7101

TABLE 10: 1000000000 DATA - 00148 : AMES 11-073-1

AMES 11-073(00148) -1404/B/C 099 VERTICAL (NE9791)

Q = 539.44 P = 443.00 SN/L = 2.9079

DEPENDENT VARIABLE CP

Q = 539.44 P = 443.00 SN/L = 2.9079

Q = 539.44 P = 443.00 SN/L = 2.9079

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Q = 539.44 P = 443.00 SN/L = 2.9079

AMES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV82) ( 13 AUG 75 )

PARAMETRIC DATA

RUDDER = 10.000  
 BDFLAP = -11.700  
 R-ELVN = 10.000  
 SPUBRK = .000  
 L-ELVN = -10.000  
 MACH = 1.250

RN/L = 3.0277

P = 600.03

Q = 1.2466

MACH = .172

IN. X0 = 1076.6800

IN. Y0 = .0000

IN. Z0 = 375.0000

REFERENCE DATA

REF. = 280.0000 SO.FT.  
 REF. = 280.0000 IN.  
 REF. = 280.0000 IN.  
 REF. = 280.0000 IN.

ALPHA 1 = .001 BETA 1 = .172 MACH = 1.2466  
 SECTION 1 (VERTICAL)  
 Z-ELV .1500 .3170 .4590 .6020 .6970 .8390 .9250

DEPENDENT VARIABLE CP  
 .6780 .6422 .5739  
 -.0503 -.0752 -.1301  
 .0286 -.0334 -.0687  
 .1650 .1674 .1594  
 .1516 .1657 .1534  
 .1135 .0570 .0565  
 .1156 -.1588 -.1233  
 -.1862 -.1244 -.1749  
 -.2136 -.1505 -.2457  
 .171 MACH = 1.2457

RN/L = 3.0295

P = 599.87

Q = 1.2457

MACH = .171

IN. X0 = 1076.6800

IN. Y0 = .0000

IN. Z0 = 375.0000

SECTION 2 (VERTICAL)

Z-ELV .1500 .3170 .4590 .6020 .6970 .8390 .9250  
 .7600 .5345 .5349 .5458 .4632  
 .2057 .0350 .0936 .1086 .1876  
 .3882 .2433 .0259 .1021 .1259  
 .3320 .1316 .1023 .1907 .0975  
 .1321 .1313 .0760 .0953 .0932  
 .0100 .0100 .0566 .0063 .0082  
 .0100 .0100 .1191 .1760 .4953  
 .0100 .0100 .2355 .2075 .4330  
 .0100 .0100 .2534 .1994 .3631



DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7103

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = -3.890 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0275  
 AMES 11-073(0A148) -14CA/B/C ORB VERTICAL (XEBV82)

## SECTION 1 : VERTICAL

## DEPENDENT VARIABLE CP

Z (3)	.1590	.3170	.4590	.6020	.6970	.8390	.9250
K/CV	.6410	.5007	.4517	.4397	.4230	.2717	.2632
.003	.2751	.3124	.2613	.2632	.2659	.1893	.1136
.006	.2658	.3204	.1924	.1714	.1136	.0722	.0438
.010	.2668	.2267	.1325	.0992	.0160	.0197	.0153
.015	.1945	.1354	.0892	.0892	.0160	.0197	.0153
.020	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.025	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.030	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.035	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.040	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.045	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.050	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.055	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.060	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.065	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.070	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.075	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.080	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.085	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.090	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.095	.1945	.0963	.0892	.0892	.0160	.0197	.0153
.100	.1945	.0963	.0892	.0892	.0160	.0197	.0153

ALPHA ( 3 ) = 3.950 BETA ( 2 ) = .192 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0275

## SECTION 1 : VERTICAL

## DEPENDENT VARIABLE CP

Z (3)	.1580	.3170	.4590	.6020	.6970	.8390	.9250
K/CV	.7227	.5690	.5040	.4486	.3539	.2313	.1817
.003	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.006	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.010	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.015	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.020	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.025	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.030	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.035	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.040	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.045	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.050	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.055	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.060	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.065	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.070	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.075	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.080	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.085	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.090	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.095	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.100	.1890	.2000	.1922	.1572	.1514	.0347	.0354

ALPHA ( 3 ) = 3.915 BETA ( 3 ) = 4.246 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0275

## SECTION 1 : VERTICAL

## DEPENDENT VARIABLE CP

Z (3)	.1580	.3170	.4590	.6020	.6970	.8390	.9250
K/CV	.6245	.5049	.4209	.3332	.2341	.1203	.0647
.003	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.006	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.010	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.015	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.020	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.025	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.030	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.035	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.040	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.045	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.050	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.055	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.060	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.065	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.070	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.075	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.080	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.085	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.090	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.095	.1890	.2000	.1922	.1572	.1514	.0347	.0354
.100	.1890	.2000	.1922	.1572	.1514	.0347	.0354



TABLED PRESSURE DATA - CA:48 ( AMES 1:-073-1 )

(XE8VB2)

= 552.51 RN/L = 3.0278

4.251 MACH = 1.2456 Q = 500.06

[illegible]

DEPENDENT VARIABLE CP

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-.3582	.1715	.0959
-.7693	-.6067	-.6874
-.3586	-.6052	-.6570
-.3685	-.3545	-.4210
	-.2472	-.2678
	-.2124	-.1763
	-.3739	-.5485
	-.3566	-.5187
	-.4386	-.5058

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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041

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COMPTON ELECTRONICS  
CORPORATION  
10000 N. CENTRAL EXPRESSWAY  
DALLAS, TEXAS 75243

(XEBV83) ( 13 AUG 75 )

**REFERENCE DATA**

YARP	=	1076.6800 IN.	XO
YARP	=	.0000 IN.	YO
ZARP	=	375.0000 IN.	ZO

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ALPHA ( 1 ) = -3.943      BETA ( 1 ) = .171      MACH = 1.0992

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SECRET - LITERICAL

2.97	.1580	.3170	.4590	.6020	.6970	.8390	.9250
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[illegible]
$$A_{\text{obs}} = .005 \quad \text{ETA} (1) = .171 \quad \text{NACH} = 1.0990$$

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2.9.	.1590	.3170	.4590	.6020	.5970	.8390	.9250
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[illegible]

## PARAMETRIC DATA

RUDDER =	10.000	SPDRK =	.000
BOFLAP =	-11.700	L-ELVN =	-10.000
R-ELVN =	10.000	MACH =	1.100

P = 708.59 RN/L = 3.1942

P = 710.01 RN/L = 3.1985

DATE 14 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 7107

AMES 11-073(0A148) -14CA/B/C ORB VERTICAL (XE8VB83)

ALPHA = 3.953 BETA ( 1 ) = -3.876 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION 1: VERTICAL

DEPENDENT VARIABLE CP

Z	1.500	3.170	.4590	.6020	.6970	.8390	.9250
1.000	.6222	.4455	.3958	.3896	.3896	.3896	.3896
1.005	.3951	.2393	.2167	.2031	.2031	.2031	.2031
1.010	.2393	.1561	.1309	.1169	.1169	.1169	.1169
1.015	.1561	.0874	.0789	.0694	.0694	.0694	.0694
1.020	.0874	.0459	.0418	.0359	.0359	.0359	.0359
1.025	.0459	.0239	.0218	.0189	.0189	.0189	.0189
1.030	.0239	.0119	.0103	.0089	.0089	.0089	.0089
1.035	.0119	.0059	.0051	.0043	.0043	.0043	.0043
1.040	.0059	.0029	.0025	.0021	.0021	.0021	.0021
1.045	.0029	.0014	.0012	.0010	.0010	.0010	.0010
1.050	.0014	.0007	.0006	.0005	.0005	.0005	.0005

ALPHA = 3.953 BETA ( 2 ) = .189 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION 2: VERTICAL

DEPENDENT VARIABLE CP

Z	1.500	3.170	.4590	.6020	.6970	.8390	.9250
1.000	.6222	.4455	.3958	.3896	.3896	.3896	.3896
1.005	.3951	.2393	.2167	.2031	.2031	.2031	.2031
1.010	.2393	.1561	.1309	.1169	.1169	.1169	.1169
1.015	.1561	.0874	.0789	.0694	.0694	.0694	.0694
1.020	.0874	.0459	.0418	.0359	.0359	.0359	.0359
1.025	.0459	.0239	.0218	.0189	.0189	.0189	.0189
1.030	.0239	.0119	.0103	.0089	.0089	.0089	.0089
1.035	.0119	.0059	.0051	.0043	.0043	.0043	.0043
1.040	.0059	.0029	.0025	.0021	.0021	.0021	.0021
1.045	.0029	.0014	.0012	.0010	.0010	.0010	.0010
1.050	.0014	.0007	.0006	.0005	.0005	.0005	.0005

ALPHA = 3.913 BETA ( 3 ) = 4.243 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION 3: VERTICAL

DEPENDENT VARIABLE CP

Z	1.500	3.170	.4590	.6020	.6970	.8390	.9250
1.000	.6222	.4455	.3958	.3896	.3896	.3896	.3896
1.005	.3951	.2393	.2167	.2031	.2031	.2031	.2031
1.010	.2393	.1561	.1309	.1169	.1169	.1169	.1169
1.015	.1561	.0874	.0789	.0694	.0694	.0694	.0694
1.020	.0874	.0459	.0418	.0359	.0359	.0359	.0359
1.025	.0459	.0239	.0218	.0189	.0189	.0189	.0189
1.030	.0239	.0119	.0103	.0089	.0089	.0089	.0089
1.035	.0119	.0059	.0051	.0043	.0043	.0043	.0043
1.040	.0059	.0029	.0025	.0021	.0021	.0021	.0021
1.045	.0029	.0014	.0012	.0010	.0010	.0010	.0010
1.050	.0014	.0007	.0006	.0005	.0005	.0005	.0005

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBV83)  
RN/L = 3.1996  
P = 710.71  
Q = 598.87

AMES 11-073(0A148) -14CA/B/C ORB VERTICAL

ALPHA ( 1 ) = 8.023 BETA ( 1 ) = .173 MACH = 1.0972 Q = 598.87 P = 710.71 RN/L = 3.1996

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z B.	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/C							
.000	.6864	.4390	.3715	.3063	.2115		
.005	.1422	.1414	.2895	.3014	.3516		
.010	.2795	.0590	.1984	.2922	.3034		
.015	.4168	.0553	.1044	.1027	.0939		
.020	.5541	.1310	.1213	.0884	.1068		
.025	.6914	.2147	.1531	.1674	.1424		
.030	.8287	.2983	.3961	.3295	.1627		
.035	.9660	.3820	.4208	.2873	.3077		
.040	1.1033	.4657	.3546	.2515	.3954		
.045	1.2406	.5494	.2878	.2200	.5218		

ALPHA ( 2 ) = 11.955 BETA ( 2 ) = .179 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z B.	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/C							
.000	.6864	.4390	.3715	.3063	.2115		
.005	.1422	.1414	.2895	.3014	.3516		
.010	.2795	.0590	.1984	.2922	.3034		
.015	.4168	.0553	.1044	.1027	.0939		
.020	.5541	.1310	.1213	.0884	.1068		
.025	.6914	.2147	.1531	.1674	.1424		
.030	.8287	.2983	.3961	.3295	.1627		
.035	.9660	.3820	.4208	.2873	.3077		
.040	1.1033	.4657	.3546	.2515	.3954		
.045	1.2406	.5494	.2878	.2200	.5218		

ALPHA ( 3 ) = 11.955 BETA ( 3 ) = .179 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION 1 VERTICAL

DEPENDENT VARIABLE CP

Z B.	.1590	.3170	.4590	.6020	.6970	.8390	.9250
M/C							
.000	.6864	.4390	.3715	.3063	.2115		
.005	.1422	.1414	.2895	.3014	.3516		
.010	.2795	.0590	.1984	.2922	.3034		
.015	.4168	.0553	.1044	.1027	.0939		
.020	.5541	.1310	.1213	.0884	.1068		
.025	.6914	.2147	.1531	.1674	.1424		
.030	.8287	.2983	.3961	.3295	.1627		
.035	.9660	.3820	.4208	.2873	.3077		
.040	1.1033	.4657	.3546	.2515	.3954		
.045	1.2406	.5494	.2878	.2200	.5218		



DATE 11-08-75

TABLED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

PAGE 7110

AXES 11-073(0A148) -140A/B/C ORB VERTICAL

(XEBV84) ( 13 AUG 75 )

# REFERENCE DATA

REF : 2500 1000 50.57  
 REF : 4000 1000 50.57  
 REF : 6000 1000 50.57  
 REF : 8000 1000 50.57  
 REF : 10000 1000 50.57

ALPHA : 11.4 BETA : 11.455 BETA ( 1 ) = .165 MACH = .89930 Q = 599.63 P = 1059.2 RN/L = 3.5865

## DEPENDENT VARIABLE CP

REF	11.4	11.455	11.5	11.55	11.6	11.65	11.7	11.75	11.8	11.85	11.9	11.95	12.0
2500	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
6000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
8000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
10000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

ALPHA : 11.4 BETA : 11.455 BETA ( 1 ) = .165 MACH = .89930 Q = 599.63 P = 1059.2 RN/L = 3.5865

## DEPENDENT VARIABLE CP

REF	11.4	11.455	11.5	11.55	11.6	11.65	11.7	11.75	11.8	11.85	11.9	11.95	12.0
2500	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
6000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
8000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
10000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

# PARAMETRIC DATA

RUDDER = 10.000 SPCBRK = .000  
 BOFLAP = -11.700 L-ELVN = -10.000  
 R-ELVN = 10.000 MACH = .900

ALPHA : 11.4 BETA : 11.455 BETA ( 1 ) = .165 MACH = .89930 Q = 599.63 P = 1059.2 RN/L = 3.5865





RELATED PRESSURE DATA - CA148 ( ANES 11-073-1 )

(XEBV84)

RN/L = 3.5792

ANES 11-073(CA148) -140A/B/C ORB VERTICAL

P

= 598.16

Q

= .89820

MACH = .103

DEPENDENT VARIABLE CP

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RN/L = 3.5769

P

= 597.36

Q

= .89710

MACH = .103

DEPENDENT VARIABLE CP

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### PARAMETRIC DATA

RUDDER =	10.000	SPEEDX =	.000
BOFLAP =	-11.700	L-ELVN =	-10.000
R-ELVN =	10.000	HCH =	.000

NO LONGER A SOURCE DATA - CALLING : AXES !!-073-1 )

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1	1375.5300	171	10
2	1375.5300	171	10
3	1375.5300	171	10
4	1375.5300	171	10

Q = 593.85 P = 2386.4 RN/L = 4.8156

DEPENDENT VARIABLE C13

.6970	.8390	.9250
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[illegible]

Q = 593.97 P = 2387 : RN/L = 4.9288

COMPONENT MAP: AGLE CP

0670 .6330 .9510

[illegible]

